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A JOURNAL ON ACCELERATORS, INSTRUMENTATION
AND TECHNIQUES IN NUCLEAR PHYSICS

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AUTHOR INDEX

tista, N., A. de Giorgio, D. Marino and V. L. Plantamura, A P.H.A. test method utilizing a pseudorandom noise signal **101** (1972) 589

, J. C., S. Amiel and R. D. MacFarlane, Use of an electrostatic particle guide for time-of-flight spectroscopy of ow energy ions **102** (1972) 73

, J. Ch., *see* Igersheim **109** (1973) 301

noli, M., *see* Strechinsky **101** (1972) 427

ms, R. J., A. S. Carroll, T. F. Kycia, K. K. Li, J. Menes, D. N. Michael, P. M. Mockett and R. Rubinstein, A large area high efficiency γ-ray detector with good time and space resolution **107** (1973) 569

erberg, E., F. C. Iglesias, A. E. Jech, A. Kasulin, E. Kerner, J. Mónico, J. A. Moragues, D. Otero, M. L. Pérez, M. Pinamonti, A. N. Proto, R. Requejo, J. J. Rossi, W. Scheuer and J. F. Suárez, The Buenos Aires isotope separator on-line facility (IALE Project) **101** (1972) 555

r, H. L., *see* O'Donnell **102** (1972) 501

r, H. L., Target thickness and uniformity measurements using charged particles **102** (1972) 599

ms, F., *see* Bartošek **103** (1972) 45

ms, F., *see* Bartošek **104** (1972) 221

, J., S. Katz and U. Salmi, A high efficiency fast response detector for 14 MeV neutrons, II. Evaluation by the Monte Carlo method **105** (1972) 73

rwal, M. D., *see* Verma **104** (1972) 545

ns, J., H. Borchert, A. Zieger and B. Ziegler, A Compton spectrometer for the energy range between 10 and 300 MeV and its application to photon flux and photon absorption measurements **108** (1973) 517

čić, V., *see* Koički **108** (1973) 297

nand, N. N., S. K. Kataria, S. S. Kapoor and P. N. Rama Rao, A ΔE gas ionization chamber for fission fragments **103** (1972) 169

ov, Yu. K., K. Andert, A. I. Kalinin and H.-G. Ortlepp, Timing system for Ge(Li) detectors **104** (1972) 581

d, J. P., *see* Roche **101** (1972) 231

edri, M. B., S. J. Harris and D. A. Sykes, The dependence of energy straggling on the atomic number of the absorber **106** (1973) 241

ander, G., J. Grunberg, A. Meir, Y. Oren, A. Rubin, A. Seidman, T. Suranyi and E. Wolf, An on-line computer system for track chamber film measuring devices **105** (1972) 525

ander, John M., *see* Namboodiri **108** (1973) 1

ander, P. and H. Shulman, Ge-Si alloy – A new type of nuclear radiation detector **104** (1972) 597

ard, M. J. and C. W. Drake, Stark beats in Lyman-beta emission **110** (1973) 311

n, K. J. F. and A. G. Klein, A technique for correction of pulse heights from thick silicon particle detectors **108** (1973) 309

n, K. W., *see* Wormald **107** (1973) 233

mand, R., *see* Prunier **109** (1973) 257

son, W. W. M., *see* Harris **107** (1973) 413

ed, J. C., *see* Coulson **101** (1972) 247

n, O., *see* Holmén **105** (1972) 545

iso, E., *see* Baragiola **110** (1973) 507

ector, J., K. Cohen, C. Harrison, B. Maglich, J. Norem, J. Oostens, F. Sannes, D. van Harlingen, G. Cvijanovich and H. Matin, An "annihilation spectrometer" for investigation of heavy meson spectra **103** (1972) 239

n, G. D. and L. O. Love, The use of an electromagnetic isotope separator in preparing special research samples **102** (1972) 379

s, M. A. F., *see* Policarpo **102** (1972) 337

ard, B., *see* Autones **103** (1972) 211

l, S., *see* Abbe **102** (1972) 73

l, S., *see* Igersheim **109** (1973) 301

erl, R. A., J. E. Hall, R. C. Morrison, R. G. Struss, M. V. Yester and D. J. Zaffarano, Compton scattered neutron capture gamma rays for photofission studies **102** (1972) 101

rsen, T., Beam-foil spectroscopy with low-energy accelerators (*invited talk*) **110** (1973) 35

rsen, T., *see* Roberts **110** (1973) 119

rsen, T., A. Kirkegård Nielsen and G. Sørensen, Oscillator strength systematics for low-lying transitions in multiply charged ions **110** (1973) 143

rson, Richard, David Wilcox and Robert Sutherland, Radiative properties of CH and CH$^+$ molecular states **110** (1973) 167

rsson, L. P. and S. Berg, Mechanism of aluminum contacts in surface barrier detectors **108** (1973) 435

rt, K., *see* Akimov **104** (1972) 581

ä, H. J., P. Dobberstein, A. Gaupp and W. Wittmann, Fine structure measurements at the $n = 2$ state of hydrogen with the quantum beat method **110** (1973) 301

Andrä, H. J., *see* Wittmann . . . **110** (1973)
Andrä, H. J., A. Gaupp, K. Tillmann and W. Wittmann, Doppler-tuned beam-laser spectroscopy . . . **110** (1973)
Andresen, R. D. and D. E. Page, On the origin of the background counting rate of curved channel multipliers . **102** (1972)
Andrews, D. G., *see* Doutriaux . . . **101** (1972)
Aničin, I. V., R. B. Vukanović and A. H. Kukoč, The new feature of 1–3 directional correlations with mixed unobserved transitions . . . **103** (1972)
Antonini, M., M. Corchia, E. Nicotera and F. Rustichelli, Curved silicon crystals as neutron monochromators . . . **104** (1972)
Aoyagi, Tadao, *see* Suzuki . . . **106** (1973)
Arcipiani, Biagio and Marzio Marseguerra, Interpretation of the results of some neutron spectrum elaboration procedures . . . **108** (1973)
Arens, I. and B. G. Taylor, A simple gain control system for scintillation counting systems in space experiments . . . **108** (1973)
Arlt, R., V. A. Bystrov, W. Habenicht, E. Herrmann, V. I. Raiko, H. Strusny and H. Tyrroff, Isobars from the spallation reaction for nuclear spectroscopy . . . **102** (1972)
Arman, M., *see* Sober . . . **108** (1973)
Armstrong, D. D., *see* Hardekopf . . . **103** (1972)
Arnison, G. T. J., Some characteristics of a capacity read-out spark chamber . . . **108** (1973)
Arnold, J., *see* Roche . . . **103** (1972)
Arvieux, J,. *see* Perrin . . . **101** (1972)
Arzumanov, A. A. and L. M. Nemenov, Kazachstan variable energy isochronous cyclotron . . . **106** (1973)
Asatiani, T. L., Val. A. Ivanov, Vit. A. Ivanov and V. M. Krishchian, Track storage in a wide gap spark chamber for a time up to 1 ms . . . **106** (1973)
Asbell, J. C., *see* Beyer . . . **110** (1973)
Åsberg, A., *see* Dahlgren . . . **103** (1972)
Astvatsaturov, R. G., V. I. Ivanov, M. N. Khachaturyan, V. A. Kramarenko, B. A. Kulakov, A. I. Malakhov and G. L. Melkumov, A high resolution lead glass Cherenkov gamma-spectrometer . . . **107** (1973)
Atac, M., R. Majka and S. Dhawan, A high energy neutron detector using proportional wire chambers . . . **106** (1973)
Atta, M. Ashraf, *see* Scott . . . **106** (1973)
Attenberger, S., J. Eickmeyer, S. Michalowski, N. Mistry, T. Padgett, L. Roberts and R. Talman, Spark chamber with multi-track capability . . . **107** (1973)
Atwater, H. F., Calculated total efficiencies of coaxial Ge(Li) detectors with small disc sources . . . **104** (1972)
Aubert, J.-J., *see* Niebergall . . . **101** (1972)
Audouard, M., *see* Roche . . . **101** (1972)
Augerat, J., *see* Roche . . . **103** (1972)
Autones, P., J. C. Brisson, A. Boucherie, G. Cozzika, J. Deregel, J. P. Duthil, H. Desportes, Y. Ducros, A. Katz, A. de Lesquen, J. P. Merlo, J. F. Mougel, J. Movchet, J. C. Raoul, B. Tsai, L. van Rossum, B. Amblard, J. M. Fontaine, M. Hansroul and J. M. Rieubland, Apparatus for spin-rotation measurements in pion-proton scattering at high energies . . . **103** (1972)
Avan, L., *see* Roche . . . **103** (1972)
Avan, M., *see* Roche . . . **103** (1972)
Averdung, H., *see* Wendling . . . **105** (1972)
Averdung, H., *see* Ehrenberg . . . **105** (1972)
Avignone III, F. T., A method for rapid comparison of angular distribution attenuation coefficients for detectors of arbitrary geometry . . . **103** (1972)
Avignone, III, F. T., J. E. Pinkerton and J. H. Trueblood, Combination magnetic-Si(Li), swept-current electron spectrometer for on-line internal conversion spectroscopy . . . **107** (1973)
Aymar, M., Cancellation effects in computed lifetimes of $3s3p^n$ levels for third-row atoms and ions . . . **110** (1973)
Ayre, C. A., M. A. Hamdan, C. J. Hume, F. W. Stubbs, M. G. Thompson, S. C. Wells and R. M. Whalley, Mars I: The geometrical characteristics of the Durham magnetic automated research spectrograph . . . **102** (1972)
Ayre, C. A., M. A. Hamdan, C. J. Hume, B. C. Nandi, M. G. Thompson, S. C. Wells and M. R. Whalley, Mars II: The operation and elements of the spectrograph . . . **102** (1972)
Ayre, C. A., M. G. Thompson, M. R. Whalley and E. C. M. Young, Particle location along the length of a neon flash-tube . . . **103** (1972)
Ayres, J. F., T. G. Coleman, A. R. Damerell, C. M. Fisher, E. W. Fitzharris, J. H. Foster, P. Gottfeldt, B. Mack, A. R. Mortimer, P. Seager, J. R. Stokoe, P. R. Williams, H. Leutz, T. Tischhauser and H. Wenninger, The operation of a track sensitive hydrogen target in a 500 l neon hydrogen bubble chamber . . . **107** (1973)

Badhwar, G.D., Calculation of the Vavilov distribution allowing for electron escape from the absorber . . . **109** (1973)
Baglin, J. E. E., E. J. Bentz, Jr., R. W. Carr, C.-P. Wu and H. L. Schultz, Response of the NBS "P2" standard ionization chamber in intense pulsed beams . . . **104** (1972)
Bahcall, J., The solar neutrino problem (*invited talk*) . . . **110** (1973)
Baird, G. A., *see* Francey . . . **107** (1973)

ker, J. W., *see* Picone **105** (1972) 377

ker, P. N., *see* Hurley **105** (1972) 387

ldin, B. J., Z. Cisek, A. Kościuk, A. I. Ronzhin and M. Szawłowski, A device for automatical recording of delayed coincidence curves **105** (1972) 157

ldit, A., *see* Roche **101** (1972) 231

ldwin, A., T. Lund and R. Madey, A high-voltage pulse generator for spark chambers in space **101** (1972) 363

ll, Jr., S. E., *see* Koch **108** (1973) 349

nner, David L. and J. B. Czirr, A fixed loss fission detector **108** (1973) 355

ragiola, R. A. and E. R. Salvatelli, Electron capture and loss in collisions of H^+ and H with Pb vapors **110** (1973) 503

ragiola, R. A., E. R. Salvatelli and E. Alonso, Charge-state distributions in collisions of H and He with magnesium **110** (1973) 507

ragiola, R. A. and I. B. Nemirovsky, Cross sections for single and double electron capture from He^{++} on hydrogen, neon and argon **110** (1973) 511

rbini, R., *see* Busso **102** (1972) 1

rbini, R., S. Faini, C. Guaraldo, P. Picozza, C. Schaerf and R. Scrimaglio, Medium energy pion beam monitoring system **105** (1972) 515

rker, J. H., *see* Hoffman **109** (1973) 3

rloutaud, R., *see* Griselin **101** (1972) 253

rloutaud, R., *see* Griselin **105** (1972) 395

rna, A., P. B. Barna, J. F. Pócza, I. Pozsgai and A. Dévényi, Thick self-supporting amorphous germanium films **102** (1972) 549

rna, P. B., *see* Barna **102** (1972) 549

rnes, C. A., *see* Mak **109** (1973) 529

r-Noy, T., *see* Moreh **105** (1972) 557

rrette, L., E. J. Knystautas and R. Drouin, Beam-foil studies of neon below 150 Å **110** (1973) 29

rrette, M., *see* Woodburn **109** (1973) 561

rrier, E., J. M. Meyer et G. Metzger, Réalisation d'une unité de dialogue CAMAC **107** (1973) 407

rtl, W., *see* Niebergall **101** (1972) 321

rtošek, J., G. Windels and J. Hoste, A new circuit for a dead time compensating timer **103** (1972) 43

rtošek, J., F. Adams and J. Hoste, A dead-time correction system for gamma-ray spectrometry of short-lived isotopes **103** (1972) 45

rtošek, J., J. Mašek, F. Adams and J. Hoste, The use of a pileup rejector in quantitative pulse spectrometry **104** (1972) 221

rtsch, H., *see* Huber **105** (1972) 589

r-Yam, Z., J. de Pagter, J. Dowd and W. Kern, A compact gas Cherenkov counter with large aperture **103** (1972) 607

sargin, Yu. G., N. I. Boldin, L. E. Korolev, V. G. Levchenko, Yu. P. Severgin, Yu. V. Gofman and V. Z. Maidikov, Ion optics and performance of a double focusing 270° magnetic analyzer **102** (1972) 125

siladze, S. G., A shaper with universal logic of operation **103** (1972) 357

siladze, S. G., V. Y. Gvozdev, I. F. Kolpakov, P. K. Manjakov and V. Tlachala, Fast nuclear electronic modules in the CAMAC system **106** (1973) 157

sile, M., J. Berbiers, D. Bollini, A. Buhler-Broglin, P. Dalpiaz, P. L. Frabetti, T. Massam, F. Navach, F. L. Navarria, M. A. Schneegans and A. Zichichi, A large electromagnetic shower detector with high rejection power against pions **101** (1972) 433

ss, R., S. Brinkmann, C. von Charzewski and H. Hanle, Symmetrical two-crystal Compton polarimeter for gamma rays **104** (1972) 33

ss, R., *see* Dietz **108** (1973) 607

teman, J. E., The application of X-ray transition radiation to charged particle detection in the 300 GeV region **103** (1972) 565

teman, J. E. and F. E. Özsan, A cryogenic scintillator-photodiode detector for penetrating charged particles **108** (1973) 403

tes, J. C., Neutron mirage formation **106** (1973) 611

tra, R. K. and M. L. Sehgal, Approximate stopping power law of electrons and positrons **109** (1973) 565

udon, J., *see* Strechinsky **101** (1972) 427

uer, W., *see* Musket **109** (1973) 449

uer, W., *see* Musket **109** (1973) 593

verstam, U., C. Bohm, B. Ringström and T. Ekdahl, Depth selection by means of scattered electrons: A method to determine electron line profiles **108** (1973) 439

yer, D., *see* Williams **102** (1972) 201

ttie, R. J. D. and J. Byrne, A Monte Carlo program for evaluating the response of a scintillation counter to monoenergetic gamma rays **104** (1972) 163

cker, A. J., H. E. Henrikson and D. C. Cook, A ^3He-^4He dilution refrigerator cryostat system for nuclear orientation experiments **108** (1973) 291

cker, K., Environmental monitoring with TLD **104** (1972) 405

cker, K., *see* Sohrabi **104** (1972) 409

r, W., *see* Piller **107** (1973) 61

r, W., J. Kern und O. Piller, Biegevorrichtungen für fokussierende Kristallspektrometer **107** (1973) 79

Bell, R. A. I., Exact least squares fitting of gamma ray angular distributions with several restricted linear parameters **106** (1973)
Bell, R. E., Comment on "Dead-time losses in a buffered data recording system" **107** (1973)
Bellemare, M., Y. Lachance and J. C. Roy, The preparation of ^{241}Am sources by surface adsorption on different backings **104** (1972)
Bellini, G., M. di Corato, P. F. Manfredi and G. Vegni, Live target performances in coherent production experiment **107** (1973)
Belusa, D., E. Fretwurst, F. Jaber and G. Lindström, Pulse shape analysis in coaxial Ge(Li)-detectors **101** (1972)
Ben-Hagay, E., *see* Rosner **108** (1973)
Benot, M., J. Litt and R. Meunier, Cherenkov counters for particle identification at high energies **105** (1972)
Bentley, K. R., J. D. Davies, J. D. Dowell, C. McLeod, T. J. McMahon, H. B. van der Raay, T. G. Rhoades, F. J. Wickens, C. J. S. Damerell, R. J. Homer and M. I. Hotchkiss, An automatic spark chamber system with sonic and magnetostrictive read-out **104** (1972)
Benton, E. V., *see* Paretzke **107** (1973)
Benton, E. V., *see* Paretzke **108** (1973)
Benton, E. V., *see* Frank **109** (1973)
Bentz, Jr., E. J., *see* Baglin **104** (1972)
Ben-Zeev, D., *see* Yarom **106** (1973)
Berbezier, J., *see* Freycenon **101** (1972)
Berbiers, J., *see* Basile **101** (1972)
Bercherer, R. et F. Prevot, Brillance d'un faisceau d'ions cylindrique creux **104** (1972)
Berényi, D., *see* Illés **107** (1973)
Berg, G., A. Heuberger and H. Bernt, Charge collection from the entrance window of diffused detectors and its contribution to energy resolution **101** (1972)
Berg, S., *see* Andersson **108** (1973)
Berger, M. J. and S. M. Seltzer, Response functions for sodium iodide scintillation detectors **104** (1972)
Bergman, O., *see* Johansson **108** (1973)
Berlman, I. B. and O. J. Steingraber, Apparatus for recording scintillation pulse contours from liquid solutions excited by ionizing particles **106** (1973)
Berlman, I. B. and O. J. Steingraber, Liquid scintillation solutions for pulse-shape discrimination **108** (1973)
Bernas, H. and J. Obert, Isotope separator implantation of radioactive ions for hyperfine interaction studies **107** (1973)
Bernt, H., *see* Berg **101** (1972)
Berry, H. G., J. Desesquelles and M. Dufay, Doubly-excited states in light atoms **110** (1973)
Berry, H. G., *see* Bickel **110** (1973)
Berry, H. G., *see* Gaillard **110** (1973)
Berry, H. G., *see* Pinnington **110** (1973)
Berry, H. G. and J. L. Subtil, Fine and hyperfine structure measurements in light atoms **110** (1973)
Bertin, A., *see* Forte **108** (1973)
Bertini, R., *see* Dorcioman **101** (1972)
Bertl, W., W. Breunlich, A. Chalupka and S. Tagesen, Response of the liquid scintillators NE 230 to deuterons and NE 231 to protons **104** (1972)
Bertrand, F. E., W. R. Burrus, N. W. Hill, T. A. Love and R. W. Peelle, A high resolution spectrometer system with particle identification for 1 through 60 MeV hydrogen and helium particles **101** (1972)
Beshai, S., *see* Hellström **101** (1972)
Bewley, D. K., *see* Watson **106** (1973)
Beyer, L. M., Wm. E. Maddox, L. B. Bridwell, D. D. Duncan, L. L. Bingham and J. C. Asbell, The beam-gas spectra of silicon, sulfur and oxygen **110** (1973)
Bhalla, C. P., Relativistic HFS oscillator strengths for indium and gallium **110** (1973)
Bhargava, R. C., *see* Tanner **102** (1972)
Bhattacharya, R. S. and S. B. Karmohapatro, Liberation of positive ions from silver single crystals under heavy-ion bombardment **109** (1973)
Bialkowski, J. and W. Karnicki, A pulse delay generator **101** (1972)
Bialkowski, J. and M. Moszyński, Timing system for high resolution time spectroscopy **105** (1972)
Bianchetti, G. and B. Righini, Photomultipliers output pulse shape **105** (1972)
Bichara, M. R. E. et K. M. Jauch, Sur les phénomènes magnéto-, sparko- et thermostrictifs dans les fils minces **103** (1972)
Bichsel, H., *see* Laulainen **104** (1972)
Bickel, William S., *see* Maio **110** (1973)
Bickel, William S., M. Dufay, J. Desesquelles and H. G. Berry, Beam-foil-gas spectroscopy **110** (1973)
Bickel, William S., *see* Davidson **110** (1973)
Bickel, W. S., *see* Oona **110** (1973)
Biersack, J. P. and D. Fink, Observation of the blocking effect after ^{2}Li(n, t)^{4}He reactions with thermal neutrons **108** (1973)
Biggs, P. J., *see* Halliwell **102** (1972)
Bignami, G. F., C. J. Bland, O. Citterio, A. J. Dean and P. Inzani, A satellite experiment to measure the intensity and energy spectrum of gamma rays from solar flares in the range 50–500 MeV **103** (1972)

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lpuch, E. G., *see* Dzubay . . . **101** (1972) 407
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nder, G., *see* Gissinger . . . **109** (1973) 157
ngham, C. A., *see* Schmidt-Ott . . . **108** (1973) 13
ngham, L. L., *see* Beyer . . . **110** (1973) 61
rchall, J., Two counter geometry factor for bremsstrahlung experiments . . . **101** (1972) 493
rk, M., Y. Eisen and Z. Vager, Compensation for gain variation with rate in a NaI(Tl) scintillation counter **108** (1973) 611
shop, G. R., *see* Hogg . . . **101** (1972) 203
shop, R. J., Short half-life measurements using a pair of semiconductor detectors . . . **107** (1973) 9
ake, T. G., *see* Harms . . . **109** (1973) 253
and, C. J., *see* Bignami . . . **103** (1972) 149
asberg, D. J., *see* Sober . . . **108** (1973) 573
att, S. L., *see* Chang . . . **109** (1973) 327
um, D., J. Boucrot, B. Grossetête, W. McGill and H. Nguyen Ngoc, A multiwire proportional chamber system for use in a large gap magnetic spectrometer . . . **104** (1972) 285
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gert, D., M. Johnson, P. Lucas, T. Ludlam, J. Sandweiss, J. Slaughter and W. Willis, Use of magnetostrictive wire for image plane digitizing of bubble pictures . . . **107** (1973) 337
hm, C., *see* Bäverstam . . . **108** (1973) 439
hmer, V., New investigations into the detection properties of hybrid chambers . . . **107** (1973) 157
hn, E. M., R. A. Lerche, A. B. Long and B. W. Wehring, Mass resolution in fission-fragment double-kinetic-energy measurements . . . **109** (1973) 605
ldin, N. I., *see* Basargin . . . **102** (1972) 125
llini, D., *see* Basile . . . **101** (1972) 433
lore, M., *see* Wartski . . . **106** (1973) 103
lson, A., *see* Johnson . . . **106** (1973) 83
nnet, J., *see* Roche . . . **103** (1972) 533
ntemps, A., Expressions simplifiées du rendement des réactions nucléaires dans le cas d'angles solides sous-tendus par des fentes . . . **104** (1972) 153
rchert, H., *see* Ahrens . . . **108** (1973) 517
rghini, M., T. O. Niinikoski, F. Udo and P. Weymuth, Dynamic polarization and relaxation of protons in 1,6-hexanediol and 1,8-octanediol: A feasibility study for a frozen spin polarized target . . . **105** (1972) 215
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schung, P., *see* Bovet . . . **101** (1972) 315
sia, G., G. Marangoni, M. Maringelli and G. Navarra, An isocon TV camera-magnetic tape recorder system for the analysis of fast oscilloscope traces . . . **105** (1972) 117
ttcher, K., *see* Crawford . . . **106** (1973) 311
ttcher, K., *see* Thies . . . **106** (1973) 339
ttiger, J., J. A. Davies, J. Lori and J. L. Whitton, A cryogenic system for low-temperature and clean-environment channeling measurements . . . **109** (1973) 579
ttiglioni, F., J. Coutant, M. Fois and M. Cuer, Ion-cluster acceleration in an electron-ring device **106** (1973) 127
ucherie, A., *see* Autones . . . **103** (1972) 211
ucrot, J., *see* Blum . . . **104** (1972) 285
ucrot, J., *see* Blum . . . **104** (1972) 509
ulter, J. F., *see* Lowe . . . **105** (1972) 461
urgeois, F. and A. Corre, A Camac module to help event recognition in high energy physics . . . **108** (1973) 485
urquin, M. H. and D. H. Saxon, A device to identify muons at high energies . . . **108** (1973) 461
ussoukaya, M., *see* Septier . . . **107** (1973) 437
vet, E., P. Boschung and J. Rossel, Light response and pulse shape discrimination properties for NE 232 . . **101** (1972) 315
ving, R., *see* Claessens . . . **101** (1972) 279
wman, W. W., T. T. Sugihara and R. D. MacFarlane, Precision gamma-ray spectroscopy of short-lived nuclides by the helium-jet recoil-transport method . . . **103** (1972) 61
wman, W. W., An inexpensive multispectral scaling module . . . **103** (1972) 69
x, W. D., Preparation of neutron dosimeters for reactors . . . **102** (1972) 437
ynton, B., *see* Nunnelley . . . **105** (1972) 593
acci, L., *see* Farley . . . **103** (1972) 325
adbury, J. N., T. E. Sharp, B. Mass and R. N. Varney, Electron impact excitation and ionization of N^{4+} **110** (1973) 75

Brady, F. P., *see* Perry **108** (1973)

Brajnik, D., D. Jamnik, G. Kernel, U. Miklavžič and J. Šnajder, A method of determining photonucleon cross sections for separate residual nuclei states utilizing continuum gamma-ray sources **103** (1972)

Brand, J. H., C. L. Cocke and Basil Curnutte, Beam-foil lifetimes of neutral nickel **110** (1973) 1

Brandstädter, O., F. Girsig, F. Grass und R. Klenk, Eine schnelle Transportautomatik zur Untersuchung kurzlebiger Kernzustände bis in den Millisekunden-Bereich **104** (1972)

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Braski, D. N., A study of various parting agents for producing selfsupporting thin films **102** (1972) 5

Brauer, F. P., J. H. Kaye, J. E. Fager, W. A. Mitzlaff and H. G. Rieck, Jr., A dual Ge(Li)-dual NaI(Tl) gamma-ray spectrometer **102** (1972) 2

Breare, J. M., *see* Stubbs **103** (1972) 3

Breare, J. M., *see* Stubbs **106** (1973) 3

Breare, J. M., *see* Stubbs **107** (1973) 6

Breidenbach, M. F., Sauli and R. Tirler, Time properties of MWPC using electronegative gases, and their efficiency of detection for normal and abnormal particles (quarks) **108** (1973)

Brenner, A. E., D. Grossman, D. Petersen, F. D. Rudnick, J. H. Scharenguivel, K. Strauch, J. K. Walker, D. Wearn, M. Wong and Sau Lan Wu, Observations on the performance of wide gap spark chambers **103** (1972) 4

Breskin, A., G. Charpak and K. Geissler, Some progress in projection chambers **107** (1973) 3

Breskin, A. and G. Charpak, A glass track chamber **108** (1973) 4

Breunlich, W., *see* Bertl **104** (1972) 2

Brewer, J. H., *see* Graven **102** (1972)

Bridwell, L. B., *see* Beyer **110** (1973)

Brinkerhoff, J. M., *see* Tanner **102** (1972)

Brinkmann, S., *see* Bass **104** (1972)

Brisson, J. C., *see* Autones **103** (1972) 2

Brockmann, H. H., *see* Selonke **103** (1972) 4

Brodzinski, R. L., *see* Wogman **109** (1973) 2

Bromander, Jan, Beam-foil spectra from highly ionized emitters (*invited talk*) **110** (1973)

Bromander, J., *see* Lindskog **110** (1973) 5

Bronk, B. V. and W. B. Whitten, Partial deconvolution as a means of studying the limitations on resolution of spectra imposed by noise **106** (1973) 3

Brooks, C. B., *see* Harris **107** (1973) 4

Brossard, M., J. Combe, J. Fain, J. Gardes, L. Meritet, M. Querrou, D. Riss, B. Chambon, D. Drain, N. Madjar and C. Pastor, Use of a semiconductor telescope for the detection of light recoiling nuclei in coherent elastic scattering experiments at high energy **101** (1972) 1

Broste, W. B., *see* Simmons **106** (1973) 4

Broström, D., *see* Rösch **101** (1972)

Brown, M. D., The response of a silicon surface-barrier detector to bromine, iodine, and uranium ions **106** (1973) 1

Brown, R. A. and D. K. Ross, An experimental determination of the transmission function of a neutron chopper **109** (1973) 3

Brown, R. C. A., H. J. Hilke and P. D. Jarman, Track formation in a liquid hydrogen ultrasonic bubble chamber **106** (1973) 5

Browne, C. P., *see* Goss **109** (1973)

Bruninx, E., The scintillation chamber: A high efficiency detector insensitive to source displacements **106** (1973) 6

Bruno, M., *see* Forte **108** (1973) 5

Brunson, G. S., R. N. Curran and F. H. Just, Two circuits for on-line monitoring of specific lines in a gamma spectrum **106** (1973)

Brzozowski, J., *see* Erman **110** (1973) 4

Buchet, J. P., M. C. Buchet-Poulizac, G. Do Cao and J. Desesquelles, Spectroscopy and lifetime measurements in the extreme ultraviolet at an energy of 1.15 MeV/nucleon **110** (1973)

Buchet-Poulizac, M. C., *see* Buchet **110** (1973)

Buchta, R., *see* Hontzeas **110** (1973)

Buchta, R., *see* Curtis **110** (1973) 3

Budnitz, R. J., *see* Graven **102** (1972)

Buhler-Broglin, A., *see* Basile **101** (1972) 4

Bukow, H. H., H. v. Buttlar, D. Haas, P. H. Heckmann, M. Holl, W. Schlagheck, D. Schürmann, R. Tielert and R. Woodruff, Lifetimes and initial populations of foil-excited hydrogen and lithium states **110** (1973)

Buras, B. and J. K. Kjems, Moving crystal slow-neutron wavelength analyser **106** (1973) 4

Burke, C. A. and H. W. Lefevre, Neutron produced carbon recoil scintillations in Naton 136 plastic scintillator **102** (1972) 3

Burns, K. B., B. R. Grummon, T. A. Nunamaker, L. W. Mo and S. C. Wright, Construction and performance of 1 m × 1 m multiple wire proportional chambers **106** (1973) 1

Burnsed, D. J., *see* Muga **104** (1972) 6

Burrus, W. R., *see* Bertrand **101** (1972) 4

Burtis, D., *see* Higbie **108** (1973)

shnin, Yu. B., S. V. Klimenko, R. N. Krasnokutsky, Yu. V. Michaylov, Yu. D. Prokoshkin, E. A. Rasuvaev and R. S. Schuvalov, The measurement of the spatial coordinates of high energy photons with a scintillation hodoscope spectrometer . . . **106** (1973) 493
ssini, A., A. J. Dean, R. di Raffaele, G. Gerardi and A. Igiuni, A silicon rubber scintillation compound for complex geometry radiation detectors . . . **107** (1973) 333
sso, L., S. Costa, R. Garfagnini, G. Piragino, R. Barbini, C. Guaraldo and R. Scrimaglio, Experimental apparatus to study the interaction of π^+ mesons in ^{4}He . . . **102** (1972) 1
sza, W., *see* Halliwell . . . **102** (1972) 51
sza, W., M. Chen and D. Luckey, Application of synchrotron radiation for the identification of electrons in high energy beams . . . **105** (1972) 613
tler, P. A., P. E. Carr, L. L. Gadeken, A. N. James, P. J. Nolan, J. F. Sharpey-Schafer, P. J. Twin and D. A. Viggars, Construction and use of a three Ge(Li) Compton polarimeter . . . **108** (1973) 497
ttlar, H. v., *see* Bukow . . . **110** (1973) 89
rne, J., *see* Beattie . . . **104** (1972) 163
strov, V. A., *see* Arlt . . . **102** (1972) 253

illiau, M., M. J. de Bettencourt et R. Foucher, Utilisation de la méthode Hoogenboom pour des mesures de corrélations angulaires avec des détecteurs Ge(Li); Detérmination des coefficients de correction géométrique . . . **105** (1972) 141
lligaris, F., C. Cernigoi, P. Ciuti and R. Giacomich, On timing resolution with thin scintillators . . . **107** (1973) 213
lvert, J. M. and J. B. Critchley, The detection at 0° of charged particles from nuclear reactions using a magnetic spectrometer . . . **106** (1973) 263
marda, Harry S., Monte Carlo studies of D_2O and H_2O neutron moderators for time of flight experiments . **106** (1973) 205
mbi, A., T. F. Fazzini, A. Giannatiempo and P. R. Maurenzig, A compact electron spectrometer for in-beam measurements of internal conversion coefficients . . . **103** (1972) 331
mhy-Val, C., *see* Dumont . . . **106** (1973) 413
mpbell, J. L., *see* MacKenzie . . . **101** (1972) 149
mpbell, J. L. and L. A. McNelles, Efficiency calibration of semiconductor X-ray detectors in the energy range 3 – 200 keV . . . **101** (1972) 153
mpbell, J. L., *see* McNelles . . . **109** (1973) 241
mpbell, J. L., *see* Herman . . . **109** (1973) 429
mpbell, M., *see* Koch . . . **108** (1973) 349
nty, M. J. and A. Neskakis, A high resolution, high sensitivity Compton polarimeter . . . **106** (1973) 1
rey, D. C., Computer simulation of charged particle beams . . . **104** (1972) 173
rlson, G. H., *see* Wohn . . . **101** (1972) 343
rpenter, A. B., *see* Hershkowitz . . . **102** (1972) 205
rr, P. E., *see* Butler . . . **108** (1973) 497
rr, R. W., *see* Baglin . . . **104** (1972) 575
rre, M., *see* Gaillard . . . **110** (1973) 273
rre, M., M. Gaillard and J. Desesquelles, Hanle experiments with accelerated ion beams in gaseous targets . **110** (1973) 295
rrell, J. Craig, Narrowing of the 14 keV Mössbauer emission line of ^{57}Fe by filtering . . . **106** (1973) 275
rrington, C. G., Hanle effect measurement of neon $2p^5$ 3p level lifetimes . . . **110** (1973) 285
rriveau, G. W., A simple monitor for beam-foil spectroscopy . . . **107** (1973) 195
rriveau, G. W., *see* Pinnington . . . **110** (1973) 55
rroll, A. S., *see* Abrams . . . **107** (1973) 569
rroll, Jim, *see* Fredrickson . . . **107** (1973) 205
rvalho, M. J. T., *see* Policarpo . . . **102** (1972) 337
ssiday, G. L., D. E. Groom and M. O. Larson, The Utah neutrino detector Cherenkov system . . . **107** (1973) 509
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rnigoi, C., *see* Calligaris . . . **107** (1973) 213
abert, A. et G. Voisin, Essai d'interprétation théorique des caractéristiques de la structures interdigitale . . . **107** (1973) 173
akraborty, P. P., S. G. Sahasrabudhe and R. K. Samant, Ion chamber device as electronic switch in high radiation field . . . **103** (1972) 411
alupka, A., *see* Bertl . . . **104** (1972) 205
ambon, B., *see* Brossard . . . **101** (1972) 107
ang, C. C., *see* Diener . . . **109** (1973) 585
ang, C. N., J. J. Kent, J. F. Morgan and S. L. Blatt, Total cross section measurements by X-ray detection of electron-capture residual activity . . . **109** (1973) 327
apman, K. R., L. Rowton and S. Trimble, Use of a spike cathode with a duoplasmatron ion source . . . **106** (1973) 253
arpak, G., *see* Breskin . . . **107** (1973) 361

Charpak, G. and F. Sauli, A possible solution to the right-left ambiguity in drift chambers **107** (1973)

Charpak, G., F. Sauli and W. Duinker, High accuracy drift chambers and their use in strong magnetic fields **108** (1973)

Charpak, G., *see* Breskin **108** (1973)

Chase, R. L., *see* Cho **102** (1972)

Chatelier, M. et D. Launois, Méthode de calcul d'angles solides définis par un ensemble de diaphragmes de formes quelconques **105** (1972)

Chaubey, A. K., *see* Gupta **108** (1973)

Chaudhuri, N., *see* Goswami **106** (1973)

Chaudhuri, N. K., *see* Iyer **109** (1973)

Chen, M., *see* Halliwell **102** (1972)

Chen, M., *see* Busza **105** (1972)

Chesser, N. J., *see* Shapiro **101** (1972)

Chew, W. M., J. C. McGeorge and R. W. Fink, A multiwire proportional counter technique for standardization of low-energy photon sources **106** (1973)

Chichikalov, Yu. F., *see* Prudnikov **101** (1972)

Chikkur, G. C. and N. Umakantha, A new method of determining the Compton edge in liquid scintillators **107** (1973)

Chiles, M. M., Low-level detector for alpha contamination monitor in continuously flowing process waste water **109** (1973)

Ching-Shen Su, Diffusion of uranium in polyethylene determined by fission track detector **107** (1973)

Chit Khaing, *see* Yin Yin Hla **104** (1972)

Cho, Z. H. and R. L. Chase, Rise time gated leading edge trigger for improved timing of monoenergetic gamma rays with Ge detectors **102** (1972)

Chow, G. Y. and M. L. Wiedenbeck, Determination of mixing ratios from the gamma–gamma directional correlations in a triple cascade **109** (1973)

Chow, W., A. D. Maio and M. O. Scully, On the possibility of high precision beam-foil spectroscopy using a modified Lambdip technique **110** (1973)

Chrisman, B. L. and J. L. Groves, Error estimates in high count rate experiments **107** (1973)

Chuang, S. Y., *see* Wang **108** (1973)

Chulick, E. T., J. B. Natowitz and C. Schnatterly, A heavy ion identification scheme based on semiempirical range–energy calculations **109** (1973)

Chupp, E. L., *see* Forrest **101** (1972)

Chupp, E., *see* Higbie **108** (1973)

Church, D. A. and C. H. Liu, Cascade-effect suppression in beam-foil mean-life measurements **110** (1973)

Church, D. A. and C. H. Liu, Beam-foil *g*-factor measurements (*invited talk*) **110** (1973)

Church, V. E., A versatile anticoincidence gate **102** (1972)

Cisek, Z., *see* Baldin **105** (1972)

Citterio, O., *see* Bignami **103** (1972)

Ciuti, P., *see* Calligaris **107** (1973)

Claessens, Ch., H. Warnant, R. Boving et A. Jones, Magnétomètre pour champs faibles à 10 ppm de résolution **101** (1972)

Clausnitzer, G., *see* Ulbricht **102** (1972)

Cleveland, B. T., An analytic method for the least-squares fitting of single-line thick-absorber Mössbauer spectra **107** (1973)

Clifford, J. R., *see* Wohn **101** (1972)

Cobb, J. H., *see* Harris **107** (1973)

Cobb, R. W., T. A. Hodges, A. D. Kirk, R. M. Pearce and L. P. Robertson, Method for finding the magnetic centre of a quadrupole field **106** (1973)

Cocke, C. L., *see* Brand **110** (1973)

Cocke, C. L., *see* Lennard **110** (1973)

Cocke, C. L., B. Curnutte and J. R. Macdonald, Lifetimes of metastable X-ray emitters in helium- and lithium-like chlorine **110** (1973)

Cohen, K., *see* Alspector **103** (1972)

Cohen, L., C. Grunberg and J. le Devehat, Some properties of multiwire chambers filled with argon-ethylbromide mixture **103** (1972)

Cohn, C. E., Improved computer method for polarity cross correlation **103** (1972)

Cole, R., *see* Eisberg **101** (1972)

Coleman, T. G., *see* Ayres **107** (1973)

Coleman, T. G., C. M. Fisher, E. W. Fitzharris, J. H. Foster, J. G. V. Guy, P. R. Williams, H. Leutz and H. Wenninger, First physics run with a track sensitive target **107** (1973)

Collén, Jan, A high efficiency scintillator coincidence system for absolute determination of neutron flux density **108** (1973)

Collins, R. L., *see* Robinette **105** (1972)

Combe, J., *see* Brossard **101** (1972)

Conner, W. V., Preparation of actinide metal targets using special casting techniques **102** (1972)

Connolly, J. F. and S. A. Gilby, A compact EHT power supply for use with high pulse rate spark chambers **106** (1973)

Cook, D. C., *see* Becker **108** (1973)

ooke, B. A., R. E. Griffiths and A. F. Janes, The reduction of cosmic-ray induced background in proportional counter rocket experiments **106** (1973) 147
ooper, J. A., Comparison of particle and photon excited X-ray fluorescence applied to trace element measurements of environmental samples **106** (1973) 525
ooper, P. N. and S. M. Kabir, Calibration of threshold activation detectors with 14 MeV neutrons **104** (1972) 227
ooper, P. N., *see* Ramos **109** (1973) 617
oops, M. S., *see* Evans **102** (1972) 389
opley, J. R. D., D. L. Price and J. M. Rowe, A system of programs for the reduction of data from a time-of-flight spectrometer **107** (1973) 501
orchia, M., *see* Antonini **104** (1972) 147
ordaillat, A., *see* Roche **101** (1972) 231
ornago, M., *see* Roche **101** (1972) 231
orney, A., Measurement of transition probabilities of forbidden lines of neutral atoms and molecules (*invited talk*) **110** (1973) 151
orre, A., *see* Bourgeois **108** (1973) 485
osack, M., *see* Paulsen **105** (1972) 103
osgrove, J. G., *see* Robinette **105** (1972) 509
osper, S. W., *see* Harvey **104** (1972) 21
osta, S., *see* Busso **102** (1972) 1
ostilhes, J. P., *see* Roche **101** (1972) 231
oulson, L. V., C. R. Fletcher, E. V. Hungerford, G. S. Mutchler, G. C. Phillips, M. L. Scott, J. C. Allred, Clark Goodman and B. W. Mayes, An in-flight pion beam flux monitor **101** (1972) 247
oupland, J. H., J. Simkin and T. C. Randle, Very high field synchrotron magnets with iron yokes **106** (1973) 595
outant, J., *see* Bottiglioni **106** (1973) 127
oveart, A. S., *see* Osborne **106** (1973) 181
owan, Robert D., The theory of rare earth energy levels and spectra (*invited talk*) **110** (1973) 173
ozzika, G., *see* Autones **103** (1972) 211
rannell, Carol Jo, Roger A. Gearhart, Frank A. Hagen, W. V. Jones, Richard J. Kurz, Jonathan F. Ormes, Robert D. Price, Robert F. Silverberg and George M. Simnett, Electron calibration of a high-energy cosmic ray detector **108** (1973) 445
rannell, Carol Jo, *see* Whiteside **109** (1973) 375
rannell, Hall, *see* Whiteside **109** (1973) 375
rawford, D. M., *see* Thies **102** (1972) 219
rawford, D. M., B. W. Thomas, K. Böttcher, R. Koch and H. H. Thies, Experimental verification of the flatness of response of a multi-BF$_3$-counter neutron detection system **106** (1973) 311
rawford, D. M., *see* Thies **106** (1973) 339
rawford, D. M., *see* Dahmen **107** (1973) 329
rawford, D. M., R. Koch and H. H. Thies, Effective decorrelation of errors of photon difference data **109** (1973) 573
rawford, G. I., *see* Syme **104** (1972) 245
rawford, G. I., S. J. Hall, J. McKeown, J. D. Kellie and D.B.C.B. Syme, A facility for fast neutron time of flight experiments **109** (1973) 479
ritchley, J. B., *see* Calvert **106** (1972) 263
rookes, J. N. and B. C. Rastin, The muon scattering distribution **109** (1973) 371
sikai, J., *see* Várnagy **106** (1973) 301
uer, M., *see* Bottiglioni **106** (1973) 127
urnutte, Basil, *see* Brand **110** (1973) 127
urnutte, B., *see* Cocke **110** (1973) 493
urran, R. N., *see* Brunson **106** (1973) 21
urrat, R., The efficiency of vertically bent neutron monochromators **107** (1973) 21
urtis, L. J., I. Martinson and R. Buchta, Meanlife measurements in manganese I and II and thulium II **110** (1973) 391
vijanovich, G., *see* Alspector **103** (1972) 239
zapek, G., B. Hahn, A. Markees, J. Schacher and U. Schryber, Pulsed beam method at high current accelerators **105** (1972) 609
zarnecki, J. v., *see* Dietz **108** (1973) 607
zirr, J. B., *see* Banner **108** (1973) 355
zirr, J. B., Gd-loaded plastic scintillator **108** (1973) 613
zyzewski, T., *see* Sowinski **105** (1972) 317

abrowski, L., J. Piekoszewski and J. Suwalski, Relations between hfs coupling and Mössbauer spectra parameters of ^{57}Fe in powdered absorbers **103** (1972) 545
ahlgren, S., A. J. Herz, S. Kullander, R. Lorenzi, T. Ekelöf, B. Höistad and A. Åsberg, A helium-recoil spectrometer **103** (1972) 309

Dahmen, H., F. Dreyer, D. M. Crawford and H. H. Thies, Interference effects in cross sections calculated by photon difference methods **107** (1973) 3
Dalgarno, A., The Z-dependence of oscillator strengths (*invited talk*) **110** (1973) 1
Dalmazzone, J., Générateurs de courants faibles **105** (1972) 2
Dalpiaz, P., *see* Basile **101** (1972) 4
Damerell, A. R., *see* Ayres **107** (1973) 1
Damerell, C. J. S., *see* Bentley **104** (1972) 2
D'Angelo, S., F. de Notaristefani and P. Monacelli, Three-body relativistic kinematics **103** (1972) 1
Daniel, H. and P. Deimel, Production of azimuth-dependent magnetic fields for β-ray spectrometers with iron-free coils **104** (1972) 4
Danilchenko, I. A., R. A. Rzaev, A. V. Samoylov and V. I. Voronov, Focusing system for neutrino experiments **105** (1972) 1
Danilović, D. Z., *see* Veselinović **101** (1972) 5
Darden, III, C. W., *see* Saltmarsh **105** (1972) 3
Darriulat, P., *see* Holder **108** (1973) 5
Das Mahapatra, B. K. and P. Mukherjee, ^{108}Ag^{m} as a calibrating source for the absolute efficiency of Ge(Li) detectors **107** (1973) 6
D'Auria, J. M., *see* Dautet **107** (1973)
D'Auria, J. M., *see* Wiesehahn **109** (1973) 6
Dautet, H., S. Gujrathi, W. J. Wiesehahn, J. M. D'Auria and B. D. Pate, A gas jet transport system for the radioactive products of fast-neutron induced fission **107** (1973)
Dautet, H., *see* Wiesehahn **109** (1973) 6
Davidson, G. R., A Monte Carlo method for fitting ^{57}Fe Mössbauer spectra **107** (1973) 5
Davidson, June and William S. Bickel, The beam-foil interaction process **110** (1973) 2
Davie, H. and R. B. Galloway, The polarization of neutrons from the ^{2}H(d, n)^{3}He reaction for deuteron energies less than 1 MeV **108** (1973) 5
Davier, M., *see* Fries **107** (1973) 1
Davies, B. W., An interactive computer graphics approach to beam optics design **105** (1972) 4
Davies, J. A. *see* Bøttiger **109** (1973) 5
Davies, J. D., *see* Bentley **104** (1972) 2
Davies, P. T., Formulation of a counting criterion for radiotracer experiments using two radionuclides **108** (1973)
Dean, A. J., *see* Bignami **103** (1972) 1
Dean, A. J., *see* Bussini **107** (1973) 3
De Bettencourt, M. J., *see* Cailliau **105** (1972) 1
De Boer, W., High proton polarization in 1,2-propanediol at ^{3}He temperatures **107** (1973)
De Bouard, X., *see* Niebergall **101** (1972) 3
De Franceschi, Luciano, Alberto Gentili and Vittorio Sabbatini, Thermoluminescence in concrete measurements for determining gamma-ray transmission curve and build-up factors **109** (1973)
De Giorgio, A., *see* Abbattista **101** (1972) 5
Deighton, M. O., Analysis of pulse-rate dependent noise and counting losses in active processor with fast recovery **103** (1972)
Deimel, P., *see* Daniel **104** (1972) 4
De La Barre, F., Influence of transit time differences on photomultiplier time resolution **102** (1972)
DeLaet, L. H., *see* Guislain **101** (1972)
DeLaet, L. H., W. K. Schoenmaekers, H. J. Guislain and M. Meeus, Quality control of p-type and intrinsic Ge monocrystals for γ-radiation detectors **101** (1972)
DeLaet, L. H., *see* Henck **101** (1972)
Delang, W., *see* Seyfarth **105** (1972) 3
Delapalme, A., Interprétation des intensités mesurées en diffraction neutronique dans le cas de la diffraction élastique à deux axes avec bras levant **105** (1972) 5
De la Porte des Vaux, Bertrand, *see* Etcheto **108** (1973) 2
Del Bianco, Walter, A target chamber for the measurement of capture reactions **109** (1973) 1
De Lesquen, A., *see* Autones **103** (1972) 2
Delsanto, P. P., *see* Fiala **107** (1973)
Delvaille, J. P., *see* Koch **108** (1973) 3
Demuynck, J., *see* Uyttenhove **109** (1973) 1
Denimal, J. and C. Ricaud, Possibility of using a source of the Bernas–Nier type for negative ion production **109** (1973) 4
Denis, A., *see* Druetta **110** (1973) 2
Denk, W. and T. von Egidy, Design of an electrostatic electron spectrometer **102** (1972) 2
De Notaristefani, F., *see* D'Angelo **103** (1972) 1
De Pagter, J., *see* Bar-Yam **103** (1972) 6
Derado, I., *see* Fries **107** (1973) 1
De Raedt, J., A simple algorithm for background corrections to γ-γ angular correlation measurements **108** (1973) 3
Deregel, J., *see* Autones **103** (1972) 2

e Regge, P., Analysis and interpretation of gamma and alpha spectra with a small real-time computer **102** (1972) 269
erevshchikov, A. A., Z. Guzik, Yu. A. Matulenko, S. B. Nurushev, Eu. V. Smirnov and V. L. Solovyanov, Fast digital processor for applications in high-energy physical experiments **108** (1973) 381
er Mateosian, E., A convenient graph paper for depicting the behavior of the moment of inertia of high spin nuclear rotational states **105** (1972) 595
er Mateosian, E., *see* Goland **106** (1973) 295
esesquelles, J., *see* Buchet **110** (1973) 19
esesquelles, J., *see* Berry **110** (1973) 43
esesquelles, J., *see* Bickel **110** (1973) 69
esesquelles, J., *see* Carre **110** (1973) 295
esesquelles, J., *see* Pinnington **110** (1973) 315
esportes, H., *see* Autones **103** (1972) 211
eutsch, J., *see* Holder **108** (1973) 541
évényi, A., *see* Barna **102** (1972) 549
hawan, S., *see* Atac **106** (1973) 389
hermain, J., *see* Roche **101** (1972) 231
ick, C. E., J. K. Whittaker and J. H. Sparrow, Kiloampere current and charge measurements of a 2 MeV pulsed electron source **104** (1972) 131
i Corato, M., *see* Bellini **107** (1973) 85
iener, E. M. and C. C. Chang, Reduction of neutron-induced background in NaI γ-ray spectra **109** (1973) 585
ierckx, R., M. L. Nimis, V. Sangiust and M. Terrani, Unfolding methods in neutron spectra measurements by foil activation technique **105** (1972) 1
ierckx, R., Direct tritium production measurement in irradiated lithium **107** (1973) 397
iethrich, C. and M. L. Wiedenbeck, Conversion electron spectra; A line shape analysis for permanent magnet spectrographs **104** (1972) 455
ietz, E., K. O. Groeneveld, R. Spohr and R. Staudte, Coaxial-cylinder electron spectrometer for beam-foil experiments **105** (1972) 467
ietz, E., J. v. Czarnecki, W. Patscher, W. Schäfer and R. Bass, Improved zero-time detector for heavy ion time-of-flight spectroscopy **108** (1973) 607
illard, P., *see* Miller **104** (1972) 11
imic, V., An improved version of the methane cold neutron source **107** (1973) 405
i Raffaele, R., *see* Bussini **107** (1973) 333
isco, A. A., *see* Souder **109** (1973) 237
ixon, W. R., Self-absorption of gamma rays in large cylindrical samples **103** (1972) 415
obberstein, P., *see* Andrä **110** (1973) 301
o Cao, G., *see* Buchet **110** (1973) 19
olfini, R., *see* Cecchet **103** (1972) 555
olling, G. and V. F. Sears, Dependence of the integrated intensity of a scattered neutron group on the experimental conditions **106** (1973) 419
onoghue, T. R., *see* Simmons **106** (1973) 477
oolin, V. and V. Mozhaev, Method of fission chamber efficiency determination using uncorrelated neutron background measurement **105** (1972) 277
oolin, V. A., and V. M. Litjaev, On the minimal threshold of pulse-shape discriminators **108** (1973) 157
orcioman, D., R. Bertini, M. Hage-Ali, P. Siffert and L. Stab, Detection of high energy protons by Ge(Li) counters **101** (1972) 91
os Santos, A. N., *see* Feu Alvim **105** (1972) 289
os Santos, M. C. M., *see* Policarpo **102** (1972) 337
oubt, H. A., J. B. Fechner, K. Hagemeyer and K.-H. Speidel, The preparation and utilisation of mercury targets for measurements with heavy ion beams **109** (1973) 571
outriaux, D. G. and D. G. Andrews, A technique for measurement of thermal neutron distributions at the surfaces of cylinders **101** (1972) 257
owd, J., *see* Bar-Yam **103** (1972) 607
owell, J. D., *see* Bentley **104** (1972) 299
rain, D., *see* Brossard **101** (1972) 107
rake, C. W., *see* Alguard **110** (1973) 311
rake, T. E., *see* Hogg **101** (1972) 203
raper, James E., Half-life measurements with unequal time bins **109** (1973) 397
raper, L., A spark chamber with low mass frame **102** (1972) 91
reher, B., *see* Ehrenberg **105** (1972) 253
rever, R. W. P., *see* Hough **103** (1972) 365
reyer, F., *see* Dahmen **107** (1973) 329
rosg, M., Accurate measurement of the counting efficiency of a NE-213 neutron detector between 2 and 26 MeV **105** (1972) 573
rouin, R., *see* Barrette **110** (1973) 29

Drouin, R., *see* Knystautas **110** (1973)

Druetta, M. and A. Denis, Measurement of *g*-factors and polarization for levels in neon (*read by title*) **110** (1973) 2

Drukier, A. K., On the possibility of using superconducting neuristor line as particle detector **104** (1972) 5

Drukier, A. K. and C. Valette, Applications of superheated superconducting colloids as particle detectors . . **105** (1972) 2

Ducros, Y., *see* Autones **103** (1972) 2

Dufay, M., *see* Berry **110** (1973)

Dufay, M., *see* Bickel **110** (1973)

Dufay, M., A survey of the cascade-induced alignment effects in beam-foil experiments (*invited talk*) **110** (1973)

Duffey, D., P. F. Wiggins and A. A. El Kady, Spectral enhancement of cobalt neutron capture gamma rays . **105** (1972)

Duinker, W., *see* Charpak **108** (1973) 4

Dumont, A. A. and C. Camhy-Val, Data analysis methods in time correlation mean lifetime measurements . . . **106** (1973) 4

Duncan, D. D., *see* Beyer **110** (1973)

Dunlap, B. D., *see* Shenoy **107** (1973) 2

Dunn, W. L. and R. P. Gardner, The determination of intrinsic gamma-ray detection efficiencies for cylindrical Geiger-Müller tubes by Monte Carlo methods **103** (1972) 3

Dürner, H., *see* Schaarschmidt **105** (1972) 4

Durrani, S. A., *see* Khan **101** (1972) 5

Durrani, S. A., *see* Khan **109** (1973) 3

Duthil, J. P., *see* Autones **103** (1972) 2

Dzubay, T. G., E. G. Bilpuch, F. O. Purser, J. D. Moses, H. W. Newson and G. E. Mitchell, Improved beam energy resolution for a tandem accelerator **101** (1972) 4

Early, R. A., Numerical solution of the electron diffusion equation **109** (1973)

Eastham, D. A., Numerical calculations of the electric fields around the hoop structure of Van de Graaff accelerators **108** (1973) 5

Eby, P. B., *see* Morgan, Jr **106** (1973) 4

Eckhause, M., *see* Miller **104** (1972)

Edge, R. D., *see* Saltmarsh **105** (1972) 3

Edmonds, C. M., *see* McCrary **109** (1973) 3

Eggert, K., A simple system producing a 450 kV pulse with 1 ns rise time **106** (1973) 5

Eggmann, R., *see* Goel **104** (1972) 2

Ehrenberg, H., H. Averdung, B. Dreher, G. Fricke, H. Herminghaus, R. Herr, H. Hultzsch, G. Lührs, K. Merle, R. Neuhausen, G. Nöldeke, H. M. Stolz, V. Walther und H. D. Wohlfahrt, Die Elektronenstreu-Apparatur am Mainzer 300 MeV-Elektronen-Linearbeschleuniger **105** (1972) 2

Eichinger, P., *see* Sever **101** (1972)

Eickmeyer, J., *see* Attenberger **107** (1973) 6

Eisberg, R., D. Ingham, M. Makino, R. Cole and C. Waddell, Semiconductor detector telescopes for measuring proton energies up to 300 MeV – Problems and solutions **101** (1972)

Eisen, Y., *see* Birk **108** (1973) 6

Ekdahl, T., *see* Bäverstam **108** (1973) 4

Ekelöf, T., *see* Dahlgren **103** (1972) 3

Ekström, C., M. Olsmats and B. Wannberg, Construction of a focussing atomic-beam magnetic resonance apparatus **103** (1972)

Elbakr, S. A., I. J. van Heerden, W. J. MacDonald and G. C. Neilson, Measurements of neutron angular distributions from the ^{7}Li(p, n)^{7}Be reaction **105** (1972) 5

El Kady, A. A., *see* Duffey **105** (1972)

Ellsworth, R. W., *see* Harris **107** (1973) 4

Emming, J. G., *see* Gilland **104** (1972) 2

Endo, K. and H. Sasaki, Measuring system of slowly varying low field for gradient magnets **108** (1973) 1

Enge, H. A., *see* Wiedner **105** (1972) 2

England, J. B. A., A note on the detection of heavy ions by over-biased totally depleted thin surface barrier detectors **102** (1972) 3

England, J. B. A., A fast analogue particle identification system **106** (1973)

Engler, J., W. Flauger, B. Gibbard, F. Mönnig, K. Runge and H. Schopper, A total absorption spectrometer for energy measurements of high-energy particles **106** (1973) 1

Erdal, B. R. and G. Rudstam, Response function of a good-geometry detector for a γ-ray cascade **104** (1972) 2

Erman, P., *see* Hontzeas **110** (1973)

Erman, P., J. Brozozowski and B. Sigfridsson, Gas excitations using high frequency deflected electron beams; A convenient method for determinations of atomic and molecular lifetimes **110** (1973) 4

Ernst, G., *see* Quittner **107** (1973) 4

Erskine, G. A., Electrostatic problems in multiwire proportional chambers **105** (1972) 5

Eschbach, H., Preparation of standard layers by vacuum evaporation **102** (1972) 4

cheto, Jacqueline, Jean Etcheto, Roger Gendrin and Bertrand de la Porte des Vaux, Use of position sensitive detectors at energies below 1 MeV; Application to a fast determination of the pitch angle distribution of protons inside the magnetosphere **108** (1973) 271
cheto, Jean, *see* Etcheto **108** (1973) 271
ans, J. E., R. W. Lougheed, M. S. Coops, R. W. Hoff and E. K. Hulet, The use of electrodeposition methods to prepare actinide targets for cross-section measurements and accelerator bombardments **102** (1972) 389
ans, L. R. and D. J. Warner, A critical study of emittance measurements of intense low-energy proton beams **104** (1972) 61
ven, K. und B. Gonsior, Eine schnelle Methode zur Targetdickenbestimmung **105** (1972) 599

atz, H., *see* Hartmann **102** (1972) 361
ger, J. E., *see* Brauer **102** (1972) 223
in, J., *see* Brossard **101** (1972) 107
ini, S., *see* Barbini **105** (1972) 515
ivre, J.-C., *see* Harvey **104** (1972) 21
ltin, H. G., *see* Helb **108** (1973) 493
res, Y., *see* Wien **103** (1972) 181
rgeix, J., *see* Roche **101** (1972) 231
rgeix, J., *see* Roche **103** (1972) 533
rley, F. J. M., E. Picasso and L. Bracci, Separated high-energy electron beams using synchrotron radiation **103** (1972) 325
rzine, K., *see* Schmitz **105** (1972) 427
vier, B., *see* Renberg **104** (1972) 157
zio, G. G., *see* Koch **108** (1973) 349
zzini, T. F., *see* Cambi **103** (1972) 331
chner, J. B., *see* Doubt **109** (1973) 571
e, Darrell C. and Samuel S. Markowitz, Design of a high-temperature neutron irradiation container **109** (1973) 445
igelbinder, H. and H. W. Weber, The influence of strong magnetic fields and temperature on the pulse rise time in planar Ge(Li)-detectors **105** (1972) 65
lder, R. M., *see* Verghese **101** (1972) 391
ldl, E. J. and R. B. Leachman, A reaction chamber for isomeric fission measurements **101** (1972) 563
ldl, E. J. and C. J. Umbarger, A target chamber for charged particle induced X-ray fluorescence studies **103** (1972) 341
nger, J., A simple Mössbauer resonance counter for surface studies **106** (1973) 203
rnandez, F., *see* Sequeiros **104** (1972) 469
rrando, W. A., *see* Forester **108** (1973) 599
ttweis, P. and E. Mies, Decay measurements of single gamma rays selected by a digital dual window **101** (1972) 163
u Alvim, C. A. and A. N. dos Santos, A precise 14 MeV neutron detector **105** (1972) 289
uerstein, A. and S. Kalbitzer, The fabrication of radial position sensitive detectors by ion implantation **109** (1973) 601
ala, W. and H. L. Foote, Jr., Cold neutron monochromatization by means of total reflection **107** (1973) 33
ala, W. and P. P. Delsanto, A detailed evaluation of neutron mirror monochromatizing systems **107** (1973) 37
ck, D., *see* Kilian **101** (1972) 359
ippi, G., *see* Wartski **106** (1973) 103
ss, Peter, (β-γ) chamber for nuclide determination in off-gas samples **108** (1973) 471
nk, D., Erhöhung des Bildkontrastes bei Plastikdetektoren mit Fluoreszenzfarbstoffen **107** (1973) 615
nk, D., *see* Biersack **108** (1973) 397
nk, R. W., *see* Hansen **106** (1973) 365
nk, R. W., *see* Chew **106** (1973) 499
ntz, P., *see* Pape **105** (1972) 161
ore, A., *see* Perrin **101** (1972) 603
rk, F. W. K., *see* Nath **108** (1973) 199
cher, B. E., An automatic scanner for nuclear emulsion plates **105** (1972) 413
cher, J. and S. Shibata, The hybrid chamber: A proportional chamber with gated spark readout **101** (1972) 401
her, C. M., *see* Ayres **107** (1973) 131
her, C. M., *see* Coleman **107** (1973) 399
hman, G. J. and D. M. Walker, Large volume, high efficiency scintillation detectors using multiple NaI(Tl) crystal pieces **107** (1973) 357
ch, J. F., *see* Picone **105** (1972) 377
zharris, E. W., *see* Ayres **107** (1973) 131
zharris, E. W., *see* Coleman **107** (1973) 399
auger, W., *see* Engler **106** (1973) 189
eck, C. M., *see* Lasser **101** (1972) 527
etcher, C. R., *see* Coulson **101** (1972) 247
eury, A., *see* Roche **103** (1972) 533
othmann, D., H. J. Gils, R. Löhken and W. Wiesner, Reproduction of monoenergetic electron lines in a 4π-Si(Li)-β-spectrometer using a coincidence method **102** (1972) 237

Flothmann, D., *see* Gils **105** (1972)

Foeth, H., R. Hammarström and C. Rubbia, On the localization of the position of the particle along the wire of a multiwire proportional chamber **109** (1973)

Fois, M. et F. Morlot, Mesure inductive d'un faisceau de particules chargées de faible intensité **103** (1972)

Fois, M., *see* Bottiglioni **106** (1973)

Foley, K. J., W. A. Love, S. Ozaki, E. D. Platner, A. C. Saulys, E. H. Willen and S. J. Lindenbaum, The Brookhaven Double Vee Magnetic Spectrometer **108** (1973)

Fontaine, J. M., *see* Autones **103** (1972)

Foote, Jr., H. L., *see* Fiala **107** (1973)

Forcinal, G., *see* Jacob **101** (1972)

Forcinal, G., Efficiency of Ge(Li) thin window detectors near absorption edge of germanium **107** (1973)

Forester, D. W. and W. A. Ferrando, Efficient, low-cost gamma-ray spectrometry for ^{161}Dy (26 keV) Mössbauer studies **108** (1973)

Forker, M., The problematic of the derivation of the electric fieldgradient asymmetry parameter from TDPAC measurements or Mössbauer spectroscopy in imperfect crystal lattices **106** (1973)

Forrest, D. J., P. R. Higbie, L. E. Orwig and E. L. Chupp, An electronically gated gamma and X-ray calibration scheme **101** (1972)

Forrest, D., *see* Higbie **108** (1973)

Forte, M., A. Bertin, M. Bruno, G. Vannini and A. Vitale, A mass-selecting apparatus to measure the energy loss of fission fragments in gases **108** (1973)

Forti, P., *see* Kropp **104** (1972)

Foster, J. H., *see* Ayres **107** (1973)

Foster, J. H., *see* Coleman **107** (1973)

Foster, Jr., J. L., *see* Woodburn **109** (1973)

Foucher, R., *see* Cailliau **105** (1972)

Fowler, I. L., *see* Marrello **108** (1973)

Fox, C. H., *see* Ong **105** (1972)

Fox, J. D., *see* Kemper **105** (1972)

Frabetti, P. L., *see* Basile **101** (1972)

Frame, J. M. and H. L. van Nice, A magnetic tape interface for Nuclear Data 130 multichannel analyzer and Kennedy 1400 tape transport **104** (1972)

Francey, R. J., G. A. Baird, D. W. Green, B. G. Wilson and W. H. Woollam, The detection of low energy cosmic X-rays **107** (1973)

Frank, A. L., and E. V. Benton, A diffusion chamber radon dosimeter for use in mine environment **109** (1973)

Franke, H. F., Eine zerlegbare hochvakuumdichte Hochspannungsdurchführung **105** (1972)

Franke, H. F., Ein Mehrwegeventil fur Hochvakuumanlagen **106** (1973)

Franke, H. F. und T. Schlurick, Ein computergesteuertes Experiment zur Aktivierungsanalyse **106** (1973)

Franke, H. F., An improved flexible detector cryostat **106** (1973)

Fraser, H. J. and A. I. M. Ritchie, A fast square pulsing and klystron bunching count down system for a 3 MeV Van de Graaff **109** (1973)

Fraysse, L., *see* Roche **101** (1972)

Fredrickson, Donald, Jim Carroll, Michael Goitein, Robert Kline, Burns MacDonald, Victor Perez-Mendez and Albert Stetz, Measurement of total particle energy in a large solid angle detector **107** (1973)

Freeman, J. H. and G. Sidenius, The technology and chemistry of heavy ion sources **107** (1973)

Freese, J. M., *see* Lynch **106** (1973)

Fretwurst, E., *see* Grube **101** (1972)

Fretwurst, E., *see* Belusa **101** (1972)

Freycenon, J., Le Hang To et J. Berbezier, Méthode de calcul du régime transitoire de la variance d'un signal aléatoire en sortie d'un filtre linéaire affecté par une commutation **101** (1972)

Fricke, G., *see* Ehrenberg **105** (1972)

Friedman, E., *see* Shaanan **105** (1972)

Fries, D. C., M. Davier, I. Derado, F. F. Liu, R. F. Mozley, A. C. Odian, J. Park, W. P. Swanson, F. Villa and D. Yount, Performance of the SLAC 2-meter streamer chamber in a study of multibody photoproduction **107** (1973)

Fujihara, Eiichi, *see* Suzuki **106** (1973)

Fujii, T., *see* Fukui **105** (1972)

Fukuda, K. and S. Okabe, On the temperature dependence of the output current from a gamma-compensated ionization chamber **109** (1973)

Fukui, S., K. Watanabe, A. Yamamoto, M. Kasuya and T. Fujii, Photomultiplier tube pulses induced by high energy electrons **105** (1972)

Fulbright, H. W., A triggered spark gap with rotating electrodes **104** (1972)

Fulbright, H. W., R. G. Markham and W. A. Lanford, Position sensitive particle detectors used in a magnetic spectrometer **108** (1973)

Furuta, Y. and S. Tanaka, Response of ^{6}LiF and ^{7}LiF thermoluminescence dosimeters to fast neutrons **104** (1972)

briel, F., H. Koepernik and K. Schöps, A timing system for Ge(Li) detectors **103** (1972) 501
briele, S. A., P. Giusti, T. Massam, G. Valenti and A. Zichichi, A plastic scintillation counter with an effective attenuation length of 25 m **108** (1973) 431
deken, L. L., *see* Butler **108** (1973) 497
illard, M., M. Carre, H. G. Berry and M. Lombardi, Larmor precessions in the 2^3P and 4^3P terms of beam-foil excited ^{6}Li II and ^{7}Li II **110** (1973) 273
illard, M., *see* Carre **110** (1973) 295
ines, J. L., A generator for producing monoenergetic, high intensity, soft X-rays **102** (1972) 7
itanis, N., *see* Gangas **106** (1973) 409
llant, J. L., Special techniques in target preparation for Chalk River nuclear physics experiments **102** (1972) 477
llmann, A., *see* Pape **105** (1972) 161
lloway, R. B. and R. M. A. Maayouf, An assessment of a Mott-Schwinger scattering polarimeter for neutrons of a few MeV energy **105** (1972) 561
lloway, R. B., *see* Davie **108** (1973) 581
ndia, V., *see* Sequeiros **104** (1972) 469
ngas, N. H. J., N. Gaitanis, A. Kostikas and A. Simopoulos, An absolute synchronization system for Mössbauer spectroscopy **106** (1973) 409
rcia, J. D., Particle–foil interactions (*invited talk*) **110** (1973) 245
rdes, D., *see* Bimbot **109** (1973) 333
rdes, J., *see* Brossard **101** (1972) 107
rdner, R. P., *see* Verghese **101** (1972) 391
rdner, R. P., *see* Dunn **103** (1972) 373
rdulski, P. L. and M. L. Wiedenbeck, Precision energy measurements of high energy gamma rays occurring in the decays of ^{46}Sc, ^{82}Br, ^{99}Mo and ^{110}Ag^{m} **105** (1972) 169
relick, D., *see* Moromisato **101** (1972) 397
rfagnini, R., *see* Busso **102** (1972) 1
rg, P. K., *see* Gill **107** (1973) 115
rg, S. P., *see* Sharma **101** (1972) 413
rland, W. J., *see* Harms **104** (1972) 217
rwin, E. L., Y. Tomkiewicz and D. Trines, Method for elimination of quartz-face phototubes in Cherenkov counters by use of wavelength-shifter **107** (1973) 365
ss, J. E., H. H. Müller, H. Schmied, L. Jörissen and G. Ziffermayer, Measurement of oxygen-diffusion-profiles in silicon-single-crystals by means of the nuclear reaction ^{18}O(p, α)^{15}N **106** (1973) 109
upp, A., *see* Andrä **110** (1973) 301
upp, A., *see* Andrä **110** (1973) 453
zit, Y., *see* Loebenstein **108** (1973) 387
arhart, Roger A., *see* Crannell **108** (1973) 445
inoz, D. and J. Kern, A gamma band-filter spectrometer **105** (1972) 5
issler, K., *see* Breskin **107** (1973) 361
ndrin, Roger, *see* Etcheto **108** (1973) 271
neux, E., *see* Hadeishi **110** (1973) 445
ntili, Alberto, *see* De Franceschi **109** (1973) 25
rardi, G., *see* Bussini **107** (1973) 333
helfan, P., Fast recovery, high input impedance tunnel diode comparator **103** (1972) 405
hose, A. M., *see* Yin Yin Hla **104** (1972) 73
acobbi, V. and F. Rustichelli, Neutron kinetics optimization in the zero reactivity method applied in a coupled graphite-D$_2$O reactor **103** (1972) 581
acomich, R., *see* Calligaris **107** (1973) 213
annatiempo, A., *see* Cambi **103** (1972) 331
bbard, B., *see* Engler **106** (1973) 189
lby, A. S., *see* Connolly **106** (1973) 213
ll, P. S., J. Prasad and P. K. Garg, An apparatus for scanning of bubble chamber photographs **107** (1973) 115
lland, J. R. and J. G. Emming, A multiwire proportional counter with integral readout delay line **104** (1972) 241
ls, H. J., *see* Flothmann **102** (1972) 237
ls, H. J., D. Flothmann, R. Löhken and W. Wiesner, A 4π β–γ-coincidence spectrometer using Si(Li) and NaI(Tl) detectors **105** (1972) 179
rsig, F., *see* Brandstädter **104** (1972) 45
ssinger, G., S. Jacquey, G. Binder, F. M. Schmitt et G. Sutter, Étude détaillée d'un générateur d'impulsions rapides de très haute tension **109** (1973) 157
usti, P., *see* Gabriele **108** (1973) 431
lass, F. M., *see* Macklin **102** (1972) 181
len, J. L., *see* Rao **103** (1972) 175
leske, I., *see* Higbie **108** (1973) 167

Glover, K. M., F. J. G. Rogers and T. A. Tuplin, Techniques used at Harwell in the preparation of stable and active nuclide targets **102** (1972) 4

Gofl, B. and R. Eggmann, Automatic focusing of scanning microscopes **104** (1972) 2

Gofman, Yu. V., *see* Basargin **102** (1972) 1

Goitein, M., Three-dimensional density reconstruction from a series of two dimensional projections **101** (1972) 5

Goitein, Michael, *see* Fredrickson **107** (1973) 2

Goland, A. N. and E. der Mateosian, Effect of energetic electron irradiation upon charged-particle track registration in polycarbonate films **106** (1973) 2

Goldberg, M., P. L. Mattern, K. Lengweiler and P. W. Levy, Radiation induced coloring of Cherenkov counter glasses **108** (1973) 1

Goldschmidt, M., *see* Wiedner **105** (1972) 2

Gonsior, B., *see* Ewen **105** (1972) 5

Goodman, Clark, *see* Coulson **101** (1972) 2

Gopal, S. and B. Sanjeevaiah, A method to determine the γ-ray attenuation coefficients **107** (1973) 2

Görner, W. and A. Rost, Simultaneous storage of spectra and additional signals by a multichannel spectrometer **109** (1973) 2

Goss, J. D., A. A. Rollefson and C. P. Browne, Design and performance of a new magnetic spectrograph for accurate energy measurements **109** (1973)

Goswami, B. and N. Chaudhuri, Measurements of gamma-ray attenuation coefficients of organic scintillators **106** (1973) 3

Gotoh, H. and H. Yagi, The detection efficiency and the response function of semiconductor proton recoil counters with axial symmetry to a point neutron source **101** (1972) 3

Gotoh, Hiroshi, Calculation of the self-absorption of gamma rays in a disc shaped source **107** (1973) 1

Gotoh, Hiroshi, Hideyuki Yagi and Yasuo Harayama, Calculation of the response function of semiconductor proton recoil counters with a radiator of finite thickness **109** (1973) 3

Göttel, P., *see* Seyfarth **105** (1972) 3

Gottfeldt, P., *see* Ayres **107** (1973) 1

Goudsmit, P. F. A., *see* Konijn **109** (1973)

Goulding, F. S., *see* Landis **101** (1972) 1

Goulding, F. S., *see* Harvey **104** (1972)

Goumnerova, L. and L. Minev, A more accurate determination of the atmospheric concentrations of radon daughters by an α-spectrometric extrapolation method **103** (1972) 2

Gove, H. E., *see* Pape **105** (1972) 1

Grabcev, Boris, The resolution function of a triple-axis neutron spectrometer **106** (1973) 3

Grahmann, H. and S. Kalbitzer, Ge(Li) detectors with highly compensated intrinsic regions **101** (1972)

Gramann, W., *see* Hesse **101** (1972)

Granet, P., *see* Griselin **101** (1972) 2

Granet, P., *see* Griselin **105** (1972) 3

Grannan, R. T., R. Koga, W. A. Millard, A. M. Preszler, G. M. Simnett and R. S. White, A large area detector for neutrons between 2 and 100 MeV **103** (1972)

Grass, F., *see* Brandstädter **104** (1972)

Graven, R. M., J. H. Brewer, R. J. Budnitz, R. L. McCarthy and D. H. Miller, A charge asymmetry measurement system **102** (1972)

Graw, G., *see* Ulbricht **102** (1972)

Green, D. W., *see* Francey **107** (1973) 5

Green, P. W. and D. M. Sheppard, A graphical representation for γ-ray linear polarization coefficients **103** (1972) 1

Green, P. W., B. C. Robertson and D. M. Sheppard, Direction correlation coefficients in compound nuclear reactions; A reply **103** (1972) 1

Greeniaus, L. G., *see* McKeown **104** (1972) 4

Greeniaus, L. G., J. V. Jovanovich, J. McKeown, D. Reimer and J. C. Thompson, A two-computer system used on-line to a wire chamber spectrometer: Description and operational experience **104** (1972) 4

Greiner, D. E., A versatile, high-resolution particle identifier – Theory **103** (1972) 2

Greisen, K., *see* Koch **108** (1973) 3

Griffin, P. M., *see* Pegg **110** (1973) 4

Griffith, G., *see* Muga **109** (1973) 2

Griffiths, R. E. *see* Cooke **106** (1973) 1

Griselin, J., P. Granet and R. Barloutaud, Correction for loss of charged sigma decays in bubble chambers **101** (1972) 2

Griselin, J., P. Granet and R. Barloutaud, Erratum **101** (1972) 253-256 **105** (1972) 3

Grisham, W. B., *see* Reed **102** (1972) 5

Groenveld, K. O., *see* Dietz **105** (1972) 4

Groom, D. E., *see* Cassiday **107** (1973) 5

Grossetête, B., *see* Blum **104** (1972) 2

Grossetête, B., *see* Blum **104** (1972) 5

Grossman, D., *see* Brenner **103** (1972) 4

Grosso-Pilcher, C., *see* Holder **108** (1973) 5

ROVE, R., V. PEREZ-MENDEZ and J. SPERINDE, Improved delay lines for proportional wire chamber readout . . **106** (1973) 407
ROVER, J. R. and H. V. LILENFELD, Use of sticking coefficients for on-line chemical analysis of beams of short lived nuclides . . . **105** (1972) 189
ROVES, J. L., *see* CHRISMAN . . . **107** (1973) 193
RUBE, R., E. FRETWURST and G. LINDSTRÖM, Radiation damage effects from 2 MeV protons in silicon surface barrier detectors . . . **101** (1972) 97
RUHN, T. A., *see* PARETZKE . . . **107** (1973) 597
RUMMON, B. R., *see* BURNS . . . **106** (1973) 171
RUNBERG, C., *see* COHEN . . . **103** (1972) 125
RUNBERG, J., *see* ALEXANDER . . . **105** (1972) 525
UARALDO, C., *see* BARBINI . . . **105** (1972) 515
UILLAUME, G., *see* PAPE . . . **105** (1972) 161
UIRAGOSSIÁN, Z. G. T. and R. E. RAND, A high quality electron and pion beam for NAL . . . **107** (1973) 237
UISLAIN, H. J., W. K. SCHOENMAEKERS and L. H. DELAET, On the behaviour of lithium in silicon . . . **101** (1972) 1
UISLAIN, H. J., *see* DELAET . . . **101** (1972) 11
UJRATHI, S., *see* DAUTET . . . **107** (1973) 49
UPTA, H. V. and A. K. CHAUBEY, The rate of ionization loss and intrinsic resolution of cadmium telluride detectors . . . **108** (1973) 339
UPTA, R. K., *see* THIES . . . **106** (1973) 339
UARALDO, C., *see* BUSSO . . . **102** (1972) 1
UY, J. G. V., *see* COLEMAN . . . **107** (1973) 399
UZIK, Z., Z. HAJDUK, R. KRASOWSKI, V. D. PESHEKHONOV, E. POPIELSKA, W. POPIELSKI, E. SILAEV, E. N. TSYGANOV, M. TURULA and YU. V. ZANEVSKY, The selective triggering system with proportional chambers for the small angle π-p scattering experiment at 40 and 50 GeV . . . **104** (1972) 337
UZIK, Z., *see* DEREVSHCHIKOV . . . **108** (1973) 381
VOZDEV, V. Y., *see* BASILADZE . . . **106** (1973) 157

AAS, D., *see* BUKOW . . . **110** (1973) 89
ABENICHT, W., *see* ARLT . . . **102** (1972) 253
ADDOCK, R. P., *see* SOBER . . . **108** (1973) 573
ADDOCK, ROY, P., *see* SOBER . . . **109** (1973) 29
ADEISHI, T., M. C. MICHEL, J. YELLIN and E. GENEUX, Improved resolution methods for beam-foil spectroscopy (*invited talk*) . . . **110** (1973) 445
ADINGER, G., G. HADINGER-ESPI, T. TAUTH, J. ILLGEN et W. JACOBY, Étude de lieu de formation des ions dans une source Penning en fonction de la forme du champ magnétique par la méthode de Monte-Carlo . . . **102** (1972) 157
ADINGER-ESPI, G., *see* HADINGER . . . **102** (1972) 157
ADIS, R., A temperature compensated single channel analyzer for monitoring purposes . . . **108** (1973) 533
AGE-ALI, M., *see* DORCIOMAN . . . **101** (1972) 91
AGEDOORN, H. L., *see* SANDVIK . . . **106** (1972) 245
AGEMEYER, K., *see* DOUBT . . . **109** (1973) 571
AGEN, FRANK A., *see* CRANNELL . . . **108** (1973) 445
AHN, B., *see* CZAPEK . . . **105** (1972) 609
AIGHT, R. C., *see* SIMMONS . . . **106** (1973) 477
AJDUK, Z., *see* GUZIK . . . **104** (1972) 337
ALBACH, KLAUS, Field correction windings for iron magnets . . . **107** (1973) 515
ALBACH, KLAUS, Some eddy current effects in solid core magnets . . . **107** (1973) 529
ALDER, N. and G. M. KALVIUS, A digital sine generator for Mössbauer spectrometers . . . **108** (1973) 161
ALL, JR., H. E. Pulse height analyzer-card punch interface . . . **103** (1972) 423
ALL, J., *see* MÜLLER . . . **104** (1972) 125
ALL, J. E., *see* ANDERL . . . **102** (1972) 101
ALL, S. J., *see* CRAWFORD . . . **109** (1973) 479
ALLIN, R., *see* LINDSKOG . . . **110** (1973) 517
ALLIWELL, C., P. J. BIGGS, W. BUSZA, M. CHEN, T. NASH, F. MURPHY, G. LUXTON and J. D. PRENTICE, Design of a tagged photon–electron beam facility for NAL . . . **102** (1972) 51
ALPERIN, J., *see* MACKLIN . . . **102** (1972) 181
AMDAN, M. A., *see* AYRE . . . **102** (1972) 19
AMDAN, M. A., *see* AYRE . . . **102** (1972) 29
AMILTON, J. H., J. C. MANTHURUTHIL and J. O. RASMUSSEN, Two decades of research on radioactivity; The impact of advances in instrumentation . . . **103** (1972) 277
AMMARSTRÖM, R., *see* FOETH . . . **109** (1973) 521
AMOUDA, I., *see* SALAMA . . . **106** (1973) 589
ANDA, M., *see* KOIKE . . . **103** (1972) 249
ANLE, H., *see* BASS . . . **104** (1972) 33

Hansen, C. F., *see* Suzuki . . . **108** (1973)

Hansen, J. S., J. C. McGeorge, D. Nix, W. D. Schmidt-Ott, I. Unus and R. W. Fink, Accurate efficiency calibration and properties of semiconductor detectors for low-energy photons . . . **106** (1973)

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Hansen, N. J., D. J. Henderson and R. G. Scott, A position sensitive surface barrier array type detector . . . **105** (1972)

Hanser, A., Application of the $^{90}\mathrm{Y}^{\mathrm{m}}$-decay for peak efficiency calibration of Ge(Li) detectors . . . **107** (1973)

Hanser, F. A., *see* Sellers . . . **104** (1972)

Hanson, W. G. and P. A. Puhach, A Doppler-shift attenuation factor calculation by the Monte Carlo method, Erratum **100** (1972) 205–209 . . . **108** (1973)

Hansroul, M., *see* Autones . . . **103** (1972)

Haque, A. K. M. M. and R. M. Hora, Energy loss and straggling of alpha particles in argon . . . **104** (1972)

Harayama, Yasuo, *see* Gotoh . . . **109** (1973)

Hardekopf, R. A., D. D. Armstrong and P. W. Keaton, Jr., Analyzing power in $\mathrm{Si}(\vec{p},p)$ below 15 MeV . . . **103** (1972)

Harding, G., *see* Kay . . . **110** (1973)

Harigovindan, S., Differential cross-section for scattering of a non-parallel non-uniform beam in a target of finite size and absorption . . . **102** (1972)

Harms, A. A. and W. J. Garland, Temperature sensing by neutron transmission . . . **104** (1972)

Harms, A. A., T. G. Blake and J. P. Marton, Neutron imaging with thin gadolinium converters . . . **109** (1973)

Harms-Ringdahl, L. and J. Sztarkier, A computer system for multiparameter measurements in nuclear physics **108** (1973)

Harris, D. W., *see* Steyn . . . **107** (1973)

Harris, F. A., S. I. Parker, V. Z. Peterson, D. E. Yount and M. L. Stevenson, Muon identification using multiwire proportional chambers . . . **103** (1972)

Harris, F., T. Katsura, S. Parker, V. Z. Peterson, R. W. Ellsworth, G. B. Yodh, W. W. M. Allison, C. B. Brooks, J. H. Cobb and J. H. Mulvey, The experimental identification of individual particles by the observation of transition radiation in the X-ray region . . . **107** (1973)

Harris, F. A., *see* Cence . . . **108** (1973)

Harris, S. J., *see* Sykes . . . **101** (1972)

Harris, S. J., *see* Al-Bedri . . . **106** (1973)

Harrison, C., *see* Alspector . . . **103** (1972)

Harrison, W. C., *see* Sannes . . . **105** (1972)

Hartmann, G., J. W. Klein and H. Faatz, An improved method for livetime correction in pulse height spectroscopy . . . **102** (1972)

Hartmann, G., D. Hubert, S. Mango, C. C. Morehouse and K. Plog, Proton polarization in alcohols at 50 kG, 1 K . . . **106** (1973)

Harvey, B. G., J. Mahoney, F. G. Pühlhofer, F. S. Goulding, D. A. Landis, J.-C. Faivre, D. G. Kovar, M. S. Zisman, J. R. Meriwether, S. W. Cosper and D. L. Hendrie, A spectrometer focal plane detector for heavy ions . . . **104** (1972)

Hassairi, Ibrahim, *see* Rice-Evans . . . **106** (1973)

Hassan, A. M., *see* Seyfarth . . . **105** (1972)

Hayashi, T., *see* Okano . . . **108** (1973)

Head, Charles E., *see* Roberts . . . **110** (1973)

Heagney, J. M., Preparation of isotopic accelerator targets . . . **102** (1972)

Hearn, D. R., *see* Koch . . . **108** (1973)

Heckman, H. H. and F. Herlach, Momentum measurements in nuclear emulsions exposed in a megagauss field . **106** (1973)

Heckmann, P. H., *see* Bukow . . . **110** (1973)

Heinemann, K., *see* Poppa . . . **102** (1972)

Heinzelmann, M. und F. Rohloff, Das effektive Zentrum des Long-Counters . . . **109** (1973)

Helb, H.-D., H. G. Faltin, T. Schlurick and H. Voit, Data acquisition system for two-dimensional measurement of heavy ion reactions . . . **108** (1973)

Hellström, J. and S. Beshai, A detector for (n,γ) cross section measurements . . . **101** (1972)

Helmken, H. F., *see* Koch . . . **108** (1973)

Helppi, H. and J. Kantele, Asymmetric linear Ge(Li)-Ge(Li) sum-peak coincidence spectrometer . . . **104** (1972)

Hembree, G. and D. C. Price, Determination of hyperfine interaction parameters from unresolved Mössbauer spectra . . . **108** (1973)

Hempel, G., A. Hofmann and K. Kilian, Analysing powers for protons elastically scattered by a thick silicon target . . . **105** (1972)

Henault, J. P., *see* Blum . . . **104** (1972)

Henck, R., P. Siffert, W. K. Schoenmaekers and L. H. DeLaet, Trap parameters of Ag, Co, Cr and Te impurities in Ge(Li) detectors . . . **101** (1972)

Henderson, C. M., *see* Johnson . . . **106** (1973)

Henderson, D. J., *see* Hansen . . . **104** (1972)

Henderson, D. J., *see* Hansen . . . **105** (1972)

Hendricks, R. W., The gas amplification factor in xenon filled proportional counters . . . **102** (1972)

ndricks, R. W., A pulse-matching method for estimating the gas amplification factor in proportional counters **106** (1973) 579
ndrie, D. L., *see* Harvey **104** (1972) 21
nke, R. P., *see* Paretzke **108** (1973) 73
nrikson, H. E., *see* Becker **108** (1973) 291
rlach, F., *see* Heckman **106** (1973) 269
rman, A. W., L. A. McNelles and J. L. Campbell, Target backings for charged particle induced X-ray fluorescence analysis **109** (1973) 429
rminghaus, H., *see* Ehrenberg **105** (1972) 253
rmsdorf, D., K. Pasieka und D. Seeliger, EFFI – Ein Monte-Carlo-Programm zur Berechnung der Nachweiseffektivität eines Neutronendetektors mit organischem Szintillator **107** (1973) 259
rr, R., *see* Ehrenberg **105** (1972) 253
rrmann, E., *see* Arlt **102** (1972) 253
rshkowitz, N., R. D. Ruth, S. A. Wender and A. B. Carpenter, Analysis of five line hyperfine split Mössbauer absorber spectra **102** (1972) 205
rz, A. J., *see* Dahlgren **103** (1972) 309
rzer, H., S. Kalbitzer, J. P. Ponpon, R. Stuck and P. Siffert, Ion implanted high-purity germanium detectors **101** (1972) 31
sse, K., W. Gramann and D. Höppner, Room-temperature GaAs gamma-detectors **101** (1972) 39
uberger, A., *see* Berg **101** (1972) 73
gbie, J., An improved numerical method for determining composite decay constants **105** (1972) 279
gbie, P. R., *see* Forrest **101** (1972) 567
gbie, P., D. Forrest, I. Gleske, E. Chupp and D. Burtis, Experimental gamma ray response function for the OSO-7 spacecraft **108** (1973) 167
lke, H. J., *see* Brown **106** (1973) 573
ll, N. W., *see* Bertrand **101** (1972) 475
ns, A. G., Manufacture of clad fissionable foils for ZPR measurements **102** (1972) 425
rner, A., *see* Schönfelder **107** (1973) 385
ruta, K., *see* Nomura **108** (1973) 61
izdo, V., Plural and multiple mott scattering by Monte Carlo method **109** (1973) 503
dges, D., J. Lindquist, B. Nelson, E. C. Swallow and D. M. Schwartz, Application of the ALICE flying spot digitizing system to oscilloscope and spark chamber data **108** (1973) 551
dges, T. A., *see* Cobb **106** (1973) 259
ff, R. W., *see* Evans **102** (1972) 389
ffman, E. J., D. M. van Patter, D. G. Sarantites and J. H. Barker, Line shapes of Doppler shifted γ-rays from coincidence and singles spectra in measurements of nuclear lifetimes **109** (1973) 3
ffmann, G. W., *see* Picone **105** (1972) 377
ffmann, G. W., E. Pipitone and J. R. White, A new technique for high-resolution charged-particle mass indentification **109** (1973) 399
fmann, A., *see* Vogler **101** (1972) 167
fmann, A., G. Philipp, K. Thomas and F. Vogler, Comparison of some methods for timing Si(Li) detectors **101** (1972) 467
fmann, A., *see* Hempel **105** (1972) 91
gg, G. R., A. G. Slight, T. E. Drake, A. Johnston and G. R. Bishop, The 100 MeV electron scattering facility at the University of Glasgow **101** (1972) 203
istad, B., *see* Dahlgren **103** (1972) 309
lder, M., E. Radermacher, A. Staude, P. Darriulat, J. Deutsch, J. Pilcher, C. Rubbia, K. Tittel, C. Grosso-Pilcher, M. Sciré and A. Villari, A high-resolution total absorption spectrometer for simultaneous detection of several high-energy γ-rays **108** (1973) 541
ll, M., *see* Bukow **110** (1973) 89
llis, M. J., An ion beam monitor for nanoampere currents **103** (1972) 337
llis, M. J., *see* Price **108** (1973) 605
lmberg, L., *see* Stefánsson **106** (1973) 289
lmén, G., E. Kugler and O. Almén, Ultra high vacuum system for ion-solid collision investigations connected to a conventional ion accelerator **105** (1972) 545
mer, R. J., *see* Bentley **104** (1972) 299
ntzeas, S., *see* Peterman **104** (1972) 461
ntzeas, S., I. Martinson, P. Erman and R. Buchta, Beam-foil studies of energy levels and radiative lifetimes in Be I and Be II **110** (1973) 51
nzátko, J. and J. Kajfosz, A criterion for the solid angle optimization in the angular correlation measurements **103** (1972) 617
ot, C. G., *see* Orphan **101** (1972) 137
pkins, N., *see* Lanza **102** (1972) 333
ppner, D., *see* Hesse **101** (1972) 39
ra, R. M., *see* Haque **104** (1972) 77
rikoshi, Gen'ichi, *see* Ogata **108** (1973) 615

Horsdal Pedersen, E., *see* Hvelplund . . . **101** (1972) 4
Horvath, P., S. V. Mukhin, S. V. Richvickij, V. Streit and M. Zvada, The use of p-i-n diodes in nuclear electronic circuits . . . **108** (1973) 3
Hosoe, M., *see* Shiraishi . . . **107** (1973) 4
Hoste, J., *see* Bartošek . . . **103** (1972)
Hoste, J., *see* Bartošek . . . **103** (1972)
Hoste, J., *see* Bartošek . . . **104** (1972) 2
Hotchkiss, M. J., *see* Bentley . . . **104** (1972) 2
Hough, J. and R. W. P. Drever, Proportional counters for the localisation of ionising radiation **103** (1972) 3
Hough, J., An investigation of some fundamental limitations to the spatial resolution of a gas proportional counter . . . **105** (1972) 3
Houska, C. R., X-ray determination of the composition profiles and diffusion generated substructure for small diffusion zones . . . **102** (1972) 5
Hrastnik, B., *see* Seyfarth . . . **105** (1972) 3
Hsu, T. H., P. K. Tseng, E. K. Lin and Y. C. Liu, Target chamber for use with radiative transition reactions studies . . . **106** (1973) 5
Huang, R., *see* Steyn . . . **107** (1973) 4
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Hubert, D., *see* Hartmann . . . **106** (1973)
Huez, M., L. Quaglia et G. Weber, Fonction d'excitation de la réaction $^{12}C(d,p_0)^{13}C$ entre 400 et 1350 keV–Distributions angulaires . . . **105** (1972) 1
Hulet, E. K., *see* Evans . . . **102** (1972) 38
Hultzsch, H., *see* Ehrenberg . . . **105** (1972) 2
Hume, C. J., *see* Ayre . . . **102** (1972) 1
Hume, C. J., *see* Ayre . . . **102** (1972)
Hummer, D. G., Informal remarks on a problem in astrophysics . . . **110** (1973) 4
Hungerford, E. V., *see* Coulson . . . **101** (1972) 24
Hurley, R. E. and P. N. Baker, 30 kV ion beam accelerator for erosion studies . . . **105** (1972) 38
Husimi, Kazuo, *see* Susumu Inaba . . . **106** (1973) 5
Hvelplund, P., E. Lægsgaard and E. Horsdal Pedersen, Equilibrium charge distributions of light ions in helium, measured with a position-sensitive open electron multiplier . . . **101** (1972) 4

Ifran, M. and R. D. G. Prasad, Photofractions from experimental relative photopeak efficiencies of a 3″ × 3″ CsI(Tl) crystal . . . **107** (1973) 58
Igersheim, R., J. Ch. Abbe, J. M. Paulus and S. Amiel, Transmission and shifts in time-of-flight spectrometry of low energy ions using an electrostatic particle guide . . . **109** (1973) 30
Igiuni, A., *see* Bussini . . . **107** (1973) 33
Iglesias, F. C., *see* Achterberg . . . **101** (1972) 5
Ikegami, H., *see* Morinobu . . . **104** (1972) 9
Illés, F., D. Berényi and J. Schadek, A permanent magnet beta-ray band-spectrograph with 75 cm maximum radius . . . **107** (1973) 9
Illgen, J., *see* Hadinger . . . **102** (1972) 1
Impellizzeri, F., *see* Cecchet . . . **103** (1972) 5
Inaba, Susumu and Kazuo Husimi, High speed decimal scaler with a centesimal top counting stage . . . **106** (1973) 5
Inbar, D., *see* Yarom . . . **106** (1973) 61
Ingham, D., *see* Eisberg . . . **101** (1972)
Inoue, Hikaru, Yasukazu Yoshizawa and Tsuneo Morii, Gamma-ray energies of ^{192}Ir . . . **108** (1973) 3
Inouye, T., Spectral resolution improvement by non-damping filter . . . **104** (1972) 5
Inzani, P., *see* Bignami . . . **103** (1972) 1
Irwin, D. J. G., A. E. Livingston and J. A. Kernahan, Recent lifetime measurements for oxygen, fluorine and neon in the vacuum ultraviolet . . . **110** (1973) 1
Irwin, D. J. G., A. E. Livingston and J. A. Kernahan, Beam-foil lifetimes in the third period elements silicon, sulfur and argon in the vacuum ultraviolet . . . **110** (1973) 1
Ishii, M., A beta- and Compton-suppressed spectrometer for internal conversion study . . . **107** (1973) 2
Ishikawa, Hiroaki, Measurements of neutron reaction cross sections using a liquid scintillation spectrometer . . . **109** (1973) 4
Ishimoto, H., *see* Nagamine . . . **105** (1972) 2
Ito, R., *see* Tabata . . . **103** (1972)
Ivanov, Val. A., *see* Asatiani . . . **106** (1973) 3
Ivanov, Vit. A., *see* Asatiani . . . **106** (1973) 3
Ivanov, V. I., *see* Astvatsaturov . . . **107** (1973) 1

yer, R. H., M. L. Sagu, R. Sampathkumar and N. K. Chaudhuri, Application of the fission track registration technique in the estimation of fissile materials: ^{235}U-content in natural and depleted uranium samples and total uranium in solutions **109** (1973) 453
zumi, S., *see* Murata **108** (1973) 243

aber, F., *see* Belusa **101** (1972) 171
acob, G., G. Forcinal and J. Meuleman, A tissue equivalent semiconductor detector for in-vivo dosimetry **101** (1972) 51
acoby, W., *see* Hadinger **102** (1972) 157
acquey, S., *see* Gissinger **109** (1973) 157
affey, A. H., An effect of multiple scattering in a gas on the solid angle subtended by a circular aperture **103** (1972) 141
ames, A. N., *see* Butler **108** (1973) 497
amnik, D., *see* Brajnik **103** (1972) 189
anes, A. F., *see* Cooke **106** (1973) 147
anik, R., *see* Zrelov **103** (1972) 261
arman, P. D., *see* Brown **106** (1973) 573
arrett, B. V., *see* Landis **101** (1972) 127
arrett, J. H., Thin film radiation sources by radiofrequency sputtering **102** (1972) 487
auch, K. M., *see* Bichara **103** (1972) 385
ech, A. E., *see* Achterberg **101** (1972) 555
ensen, H. B., *see* Mak **109** (1973) 529
ensen, M., L. Larsson and R. Rosander, The relation between restricted energy loss and track width in nuclear emulsions **104** (1972) 611
x, H., *see* Müllner **103** (1972) 229
ohansson, A., B. Nyman, B. Svahn, O. Bergman and H. Pettersson, A high-resolution magnetic beta-ray spectrometer adapted for on-line work **108** (1973) 225
ohn, J., *see* Orphan **101** (1972) 137
ohnsen, Kjell, The CERN intersecting storage rings **108** (1973) 205
ohnson, M., *see* Bogert **107** (1973) 337
ohnson, P. G., A. Bolson and C. M. Henderson, A high temperature ion source for isotope separators **106** (1973) 83
ohnston, A., *see* Hogg **101** (1972) 203
ones, A., *see* Claessens **101** (1972) 279
ones, B. D., *see* Cence **108** (1973) 113
ones, Richard E. H. and Anthony J. Wynroe, The time stretcher **109** (1973) 461
ones, R. T., *see* Logan **104** (1972) 55
ones, R. T., *see* Logan **108** (1973) 603
ones, R. T., A. Ljubičić and B. A. Logan, A technique for investigating continuous photon distributions **109** (1973) 77
ones, W. V., *see* Crannell **108** (1973) 445
ones, W. Vernon, *see* Whiteside **109** (1973) 375
ordan, Carole, Forbidden lines in spectra of the solar chromosphere and corona (*invited talk*) **110** (1973) 373
örissen, L., *see* Gass **106** (1973) 109
ousset, J., *see* Roche **103** (1972) 533
ovanovich, J. V., *see* Mckeown **104** (1972) 413
ovanovich, J. V., *see* Greeniaus **104** (1972) 437
ovanovich, J. V., *see* Millar **104** (1972) 447
oy, T., Simulation of heavy ion scattering at strippers in beam optics calculations for tandem Van de Graaff accelerators **106** (1973) 237
oyeux, J., *see* Van Audenhove **102** (1972) 409
oyeux, J. and J. van Audenhove, High temperature neutron dosimeters **102** (1972) 435
uyász, S., *see* Várnagy **106** (1973) 301
ung, V., Distortions in the analysis of multipole components in quadrupole end fields by longitudinal field components and sag of the probe arm **101** (1972) 225
unod, E., Traitement par ordinateur de spectres gamma mesurés par détecteurs semi-conducteurs **105** (1972) 13
ust, F. H., *see* Brunson **106** (1973) 21

abir, S. M., *see* Cooper **104** (1972) 227
abir, S. M., Optimum thickness of tritium–titanium targets for the 150 keV deuterons **109** (1973) 533
aiser, R., *see* Sequeiros **104** (1972) 469
ajfosz, J., *see* Honzátko **103** (1972) 617
ajfosz, J. and Z. Kosina, A peak locating method with statistically defined sensitivity **107** (1973) 613
albitzer, S., *see* Herzer **101** (1972) 31
albitzer, S., *see* Grahmann **101** (1972) 61
albitzer, S., *see* Feuerstein **109** (1973) 601

Kalinin, A. I., *see* Akimov **104** (1972)
Kalisz, J., Statistical model of fast multifold coincidence circuits of serial structure **108** (1973)
Kalli, H., A Monte Carlo solution of multiple scattering in cold neutron scattering experiments **101** (1972)
Kalli, H., On the reduction of multiple scattering by a sandwich structure of the sample in neutron scattering experiments **108** (1973)
Kalli, H., A Monte Carlo solution of multiple scattering in cold neutron scattering experiments, Erratum **101** (1972) 263–266 **108** (1973)
Kalvius, G. M., *see* Halder **108** (1973)
Kamke, D., *see* Möller **105** (1972)
Kanda, K., *see* Okano **104** (1972)
Kantele, J., *see* Valkonen **103** (1972)
Kantele, J., *see* Helppi **104** (1972)
Kaplan, S. N., L. Kaufman, V. Perez-Mendez and K. Valentine, Multiwire proportional chambers for biomedical application **106** (1973)
Kapoor, S. S., *see* Ajitanand **103** (1972)
Karasek, F. J., Fabrication of target foils by rolling techniques **102** (1972)
Karlsson, L., On a linear amplifier for high resolution nuclear pulse analysis **102** (1972)
Karlsson, L., On a digitally stabilized timing system **105** (1972)
Karlsson, L., On a timing circuit for Ge(Li) detectors **106** (1973)
Karlsson, L., A timing filter amplifier **107** (1973)
Karlsson, L., Particle identification with a small Ge(Li) detector **109** (1973)
Karmohapatro, S. B., *see* Bhattacharya **109** (1973)
Karnicki, W., *see* Bialkowski **101** (1972)
Kastler, Alfred, The Hanle effect and its use for the measurements of very small magnetic fields (*invited talk*) **110** (1973)
Kasulin, A., *see* Achterberg **101** (1972)
Kasuya, M., *see* Fukui **105** (1972)
Kataria, S. K., *see* Ajitanand **103** (1972)
Katsura, T., S. Parker, V. Z. Peterson, D. E. Yount and M. L. Stevenson, Energy resolution of a multiwire proportional quantameter **105** (1972)
Katsura, T., *see* Harris **107** (1973)
Katz, A., *see* Autones **103** (1972)
Katz, S., *see* Adir **105** (1972)
Kaufman, L., *see* Kaplan **106** (1973)
Kaufmann, E. N., Crystallographic texture and differential perturbed angular correlations **103** (1972)
Kawano, Minoru, *see* Nakayama **108** (1973)
Kawarasaki, Y., Remotely controlled time-dividing spectrum stabilization **105** (1972)
Kawase, Y., *see* Okano **104** (1972)
Kawase, Y., *see* Okano **108** (1973)
Kawase, Y., *see* Okano **108** (1973)
Kawashima, N., *see* Kifune **103** (1972)
Kay, L., B. Lightfoot and G. Harding, Lineshapes and time-windows; Theory and experiment **110** (1973)
Kaye, J. H., *see* Brauer **102** (1972)
Kayser, J., A versatile sector-focusing magnetic β-ray spectrometer **107** (1973)
Keaton, Jr., P. W., *see* Hardekopf **103** (1972)
Keaton, Jr., P. W., *see* Ohlsen **109** (1973)
Kedem, D., M. Mahlav and J. Pelah, A method for obtaining a homogeneous flux in a reactor beam tube **102** (1972)
Kegel, G. H. R., Diffusion of lithium into germanium at low temperatures **105** (1972)
Keil, G. and E. Lindner, Low-noise oxide passivated p^+n silicon detectors **101** (1972)
Keil, G. and E. Lindner, Low-noise silicon planar detectors for room temperature application **104** (1972)
Keisch, B., A detector for efficient backscatter Mössbauer effect spectroscopy **104** (1972)
Kellermann, H.-J., H. O. Klages, H. Krause, R. Langkau und K.-H. Lau, Messungen der Ladungsverteilung im externen Teilchenstrahl des Hamburger Isochron-Zyklotrons **104** (1972)
Kellermann, H.-J., H. O. Klages, H. Krause und R. Langkau, Erzeugung von Zeit-Referenzsignalen für das Neutronen-Flugzeitspektrometer am Hamburger Isochronzyklotron mittels Szintillatorfolien **105** (1972)
Kellie, J. D., *see* Crawford **109** (1973)
Kelly, T. M., J. A. Merrigan and R. M. Lambrecht, Comparison of plastic scintillators with nanosecond lifetimes **109** (1973)
Kemper, K. W. and J. D. Fox, Comparative pulse-height anomaly for protons and alpha-particles in silicon surface barrier detectors **105** (1972)
Kendrick, N. S., *see* McClure **103** (1972)
Kennedy, A. J., J. C. Pacer, A Sprinzak, J. Wiley and N. T. Porile, Oxygen and carbon assay of metal foils by nuclear reactions **101** (1972)
Kent, J. J., *see* Chang **109** (1973)
Kern, J., *see* Geinoz **105** (1972)

rn, J., *see* Piller **107** (1973) 61

rn, J., *see* Beer **107** (1973) 79

rn, W., *see* Bar-Yam **103** (1972) 607

rnahan, J. A., *see* Irwin **110** (1973) 105

rnahan, J. A., *see* Irwin **110** (1973) 111

rnel, G., *see* Brajnik **103** (1972) 189

rner, E., *see* Achterberg **101** (1972) 555

achaturyan, M. N., *see* Astvatsaturov **107** (1973) 105

akimov, S. Kh., I. P. Lavrushkin, V. P. Martemianov, V. V. Ogurtzov and V. G. Tarasenkov, 300 kilogauss impulse magnet **103** (1972) 135

an, H. A. and S. A. Durrani, Electronic counting and projection of etched tracks in solid state nuclear track detectors (SSNTD) **101** (1972) 583

ian, H. A. and S. A. Durrani, Fission fragment energy spectrum determination with solid state nuclear track detectors **109** (1973) 341

ian, H. A., An important precaution in the etching of solid state nuclear track detectors **109** (1973) 515

ian, M. S. and R. L. Vallee, Design and development of a random pulse sampler **103** (1972) 361

ian, M. S., A control system for cascade processors **107** (1973) 349

ely, F. Michael and Brian D. Pate, Coincidence spectroscopy of fission fragments via mica track detectors **109** (1973) 355

fune, T. and N. Kawashima, Windowless proportional counter for soft X-rays **103** (1972) 167

lert, A., *see* Williams **105** (1972) 483

lian, K., J. Niewisch and D. Fick, A simple multicounter system for silicon detectors **101** (1972) 359

lian, K., *see* Hempel **105** (1972) 91

rk, A. D., *see* Cobb **106** (1973) 259

ss, I., E. Koltay, A. Szalay and E. V. Shpak, Line focused beam for high voltage accelerators **107** (1973) 401

stner, O. C., Beam profile measuring device and focusing aid **105** (1972) 603

ems, J. K., *see* Buras **106** (1973) 461

ages, H. O., *see* Kellermann **104** (1972) 1

ages, H. O., *see* Kellermann **105** (1972) 493

eb, R., G. E. Ostrowski, D. L. Price and J. M. Rowe, A new "hybrid" spectrometer for inelastic thermal neutron scattering **106** (1973) 221

ein, A. G., *see* Allen **108** (1973) 309

ein, J. W., *see* Hartmann **102** (1972) 361

enk, R., *see* Brandstädter **104** (1972) 45

imenko, S. V., *see* Bushnin **106** (1973) 493

ine, Robert, *see* Fredrickson **107** (1973) 205

nox, H. H. and T. G. Miller, A technique for determining bias settings for organic scintillators **101** (1972) 519

udsen, P., *see* Sletten **102** (1972) 459

ystautas, E. J., *see* Barrette **110** (1973) 29

ystautas, E. J. and R. Drouin, Lifetime measurements of doubly-excited states of helium **110** (1973) 95

bayashi, M. and S. Yamashita, Precise measurements of peak fields of pulsed quadrupole magnets **101** (1972) 187

bayashi, M. and S. Yamashita, Measurement of harmonic field contents in pulsed magnets using a stepping search coil **103** (1972) 493

bayashi, M. and K. Kondo, New method for measurement of γ-ray polarization by detection of angular correlation in pair production **104** (1972) 101

bayashi, M. and K. Kondo, New method for measurement of γ-ray polarization by detection of angular correlation in pair production, Erratum **104** (1972) 101–107 **109** (1973) 411

bisk, E. H., *see* Kuehn **102** (1972) 403

ch, D., S. E. Ball, Jr., M. Campbell, J. P. Delvaille, K. Greisen, B. McBreen, G. G. Fazio, D. R. Hearn and H. F. Helmken, Performance of a gas-Cherenkov gamma-ray telescope **108** (1973) 349

ch, R., *see* Thies **102** (1972) 219

ch, R., *see* Crawford **106** (1973) 311

ch, R., *see* Thies **106** (1973) 339

ch, R., *see* Crawford **109** (1973) 573

epernik, H., *see* Gabriel **103** (1972) 501

ga, R., *see* Grannan **103** (1972) 99

hlmeyer, B., *see* Pfeffer **107** (1973) 121

ički, A., *see* Koički **108** (1973) 297

ički, S., A. Koički and V. Ajdačić, The investigation of the 0.15 s phosphorescent component of NaI(Tl) and its application in scintillation counting **108** (1973) 297

ike, Y., M. Handa and K. Yamamoto, Thin film of organic fluorescent materials for simple detection of alpha rays **103** (1972) 249

ike, Y., Liquid scintillators based on normal alkanes and intermediate solvents **109** (1973) 269

lpakov, I. F., *see* Basiladze **106** (1973) 157

Koltay, E., *see* Kiss **107** (1973)
Komar, E. G., 250 kG complex solenoid **103** (1972)
Kondo, K. and J. Sanada, Geometrical corrections in coincidence measurement of nuclear reactions using gas target **102** (1972)
Kondo, K., *see* Kobayashi **104** (1972)
Kondo, K., *see* Kobayashi **109** (1973)
Konijn, J., P. F. A. Goudsmit and E. W. A. Lingeman, A high resolution, large volume Ge(Li)-NaI(Tl) Compton-suppression spectrometer **109** (1973)
Korolev, L. E., *see* Basargin **102** (1972)
Kościuk, A., *see* Baldin **105** (1972)
Kosina, Z., *see* Kajfosz **107** (1973)
Kostikas, A., *see* Gangas **106** (1973)
Kovar, D. G., *see* Harvey **104** (1972)
Kowalski, S. B., *see* Wiedner **105** (1972)
Koyano, A., *see* Tomono **102** (1972)
Koyano, Akira, *see* Suzuki **106** (1973)
Kramarenko, V. A., *see* Astvatsaturov **107** (1973)
Krane, K. S., Solid-angle correction factors for “five-sided” coaxial Ge(Li) detectors **109** (1973)
Krasnokutsky, R. N., *see* Bushnin **106** (1973)
Krasowski, R., *see* Guzik **104** (1972)
Krause, H., *see* Kellermann **104** (1972)
Krause, H., *see* Kellermann **105** (1972)
Kregar, M., P. Kump, M. Pavšič and M. Vakselj, A new approach to the analysis of the Doppler shift attenuation measurements **109** (1973)
Krider, E. P., Lightning spectroscopy **110** (1973)
Krimmel, E. F., *see* Boroffka **107** (1973)
Krishchian, V. M., *see* Asatiani **106** (1973)
Kritzinger, J. J., W. R. McMurray and R. J. Nuspliger, A versatile Klystron bunching system for a 5.5 MV Van de Graaff accelerator **101** (1972)
Kroondijk, R., *see* Roodbergen **105** (1972)
Kropp, L. and P. Forti, A facility for the study of (n,x)-reactions using an isochronous cyclotron **104** (1972)
Kruse, T., *see* Williams **102** (1972)
Kuehn, P. R., F. R. O’Donnell and E. H. Kobisk, Preparation of selfsupporting, metallic foils of isotopic chromium **102** (1972)
Kugler, E., *see* Holmén **105** (1972)
Kukoć, A. H., *see* Aničin **103** (1972)
Kulakov, B. A., *see* Astvatsaturov **107** (1973)
Kullander, S., *see* Dahlgren **103** (1972)
Kumabe, I., *see* Ōkuma **102** (1972)
Kump, P., *see* Kregar **109** (1973)
Kurz, Richard J., *see* Crannell **108** (1973)
Kusuhara, M., A method for the determination of absolute photon spectrum of bremsstrahlung **105** (1972)
Kycia, T. F., *see* Abrams **107** (1973)

Lachance, Y. and J. R. Roy, Studies on the measurement of the disintegration rate of ^{63}Ni by 4π-β counting **104** (1972)
Lachance, Y., *see* Bellemare **104** (1972)
Ladu, M., M. Pelliccioni and M. Roccella, On the response of impurity activated alkali-halide scintillators . **101** (1972)
Ladu, M., M. Pelliccioni, P. Picchi and M. Roccella, Shielding for ultrarelastivistic muons **104** (1972)
Lægsgaard, E., *see* Hvelplund **101** (1972)
Lakin, W. L., A surface-barrier monitor **102** (1972)
Lakin, W. L., E. W. Petraske and W. T. Toner, Correction of light attenuation in large shower counters . . . **103** (1972)
Lall, H. B., Design considerations of three- and four-stage aperiodic rf mass spectrometer with improved performance characteristics **107** (1973)
Lambrecht, R. M., *see* Kelly **109** (1973)
Lamoureux, G., *see* Woodburn **109** (1973)
Landis, D. A., F. S. Goulding and B. V. Jarrett, Some aspects of X-ray fluorescence spectrometers for trace element analysis **101** (1972)
Landis, D. A., *see* Harvey **104** (1972)
Lanford, W. A., *see* Fulbright **108** (1973)
Langkau, R., *see* Kellermann **104** (1972)
Langkau, R., *see* Kellermann **105** (1972)
Lanza, R. and N. Hopkins, Inexpensive large area counters using multi-wire proportional chambers **102** (1972)
Larson, M. O., *see* Cassiday **107** (1973)

son, R. E., Measurements of radioactive aerosols using thin plastic scintillators . . . **108** (1973) 467
sson, L., *see* Jensen . . . **104** (1972) 611
ser, O. and C. M. Fleck, Fast dc amplifier with autoranging over six decades . . . **101** (1972) 527
, K.-H., *see* Kellermann . . . **104** (1972) 1
uber, A., Development of miniaturized solid state detectors for the measurement of beta and gamma radiation in superficial and deep parts of living tissue . . . **101** (1972) 545
ier, K. F., Assay of samples for nuclear measurements by counting and chemical analysis . . . **102** (1972) 589
ughlin, C., *see* Victor . . . **110** (1973) 189
ulainen, N. and H. Bichsel, Energy removed by delta rays from finite volumes in passage of charged particles . . . **104** (1972) 531
unois, D., *see* Chatelier . . . **105** (1972) 231
val, M., *see* Prunier . . . **109** (1973) 257
vi, N., Thermal neutron flux measurement at very high temperature using iridium . . . **107** (1973) 13
vi, N., ^{169}Yb and ^{110}Ag^{m} as efficiency calibration standards for Ge(Li) detectors . . . **107** (1973) 197
vi, N., ^{166}Ho^{m} as an efficiency calibration standard for Ge(Li) detectors . . . **109** (1973) 265
vrushkin, I. P., *see* Khakimov . . . **103** (1972) 135
chman, R. B., *see* Feldl . . . **101** (1972) 563
vitt, J., J. W. Robson and J. O. Stoner, Jr., Line shapes and charge identification (*invited talk*) . . . **110** (1973) 423
erf, M. et J. Péter, Détecteurs en verre; Influence de la masse et de l'énergie des particules sur le diamètre des traces . . . **104** (1972) 189
Devehat, J., *see* Cohen . . . **103** (1972) 125
, D. M., S. E. Sobottka and H. A. Thiessen, A bifilar helical multiwire proportional chamber for position sensitive detection of minimum ionizing particles . . . **104** (1972) 179
, D. M., S. E. Sobottka and H. A. Thiessen, Proportional chambers with monofilar helical cathodes for high spatial resolution . . . **109** (1973) 421
, F., *see* Thies . . . **102** (1972) 219
naarts, H. W., *see* Lingeman . . . **102** (1972) 167
evre, H. W., *see* Burke . . . **102** (1972) 357
Hang To, *see* Freycenon . . . **101** (1972) 539
imann, M., *see* Meyer . . . **103** (1972) 601
ch, D. A. and T. A. Tombrello, A technique for measuring hydrogen concentration versus depth in solid samples . . . **108** (1973) 67
th, D. W. G. S., *see* Williams . . . **105** (1972) 483
ngweiler, K., *see* Goldberg . . . **108** (1973) 119
nnard, W. N. and C. L. Cocke, Absolute beam-foil excitation probabilities of hydrogen-like states in iron . . . **110** (1973) 137
nnard, W. N., W. Whaling, R. M. Sills and W. A. Zajc, Absolute transition probabilities in Ni I . . . **110** (1973) 385
nt, Edward M., Response of multiple collimator systems to extended sources . . . **106** (1973) 29
eltier, V., *see* Niebergall . . . **101** (1972) 321
rche, R. A., B. W. Wehring and M. E. Wyman, Effects of UO_2 deposit thickness on fission-fragment double-kinetic-energy measurements . . . **101** (1972) 287
che, R. A., B. W. Wehring and M. E. Wyman, Timing walk and time resolution estimated by least-squares fitting . . . **101** (1972) 599
che, R. A., B. W. Wehring and M. E. Wyman, Prompt timing response in X-ray, heavy ion experiments using NaI(Tl) and surface-barrier detectors . . . **107** (1973) 321
che, R. A., *see* Bohn . . . **109** (1973) 605
ner, J., Preparation of nuclear research materials with a laboratory-type isotope separator . . . **102** (1972) 373
ardi, T. and A. Turrin, Rotation of the vertical polarization of a circulating electron beam into the horizontal plane by excitation of an imperfection resonance . . . **103** (1972) 485
ng, K. C., *see* Sober . . . **108** (1973) 573
tz, H., *see* Ayres . . . **107** (1973) 131
tz, H., *see* Coleman . . . **107** (1973) 399
chenko, V. G., *see* Basargin . . . **102** (1972) 125
enthal, M., Lamb shift measurements in heavy ions (*invited talk*) . . . **110** (1973) 343
y, P. W., *see* Goldberg . . . **108** (1973) 119
vis III, J. W., *see* McClure . . . **103** (1972) 453
K. K., *see* Abrams . . . **107** (1973) 569
ert, J., Un nouveau mode de représentation des pics de détection d'un détecteur Ge(Li) . . . **109** (1973) 609
sem, H., Design of the extraction system for the AEG-Compact Cyclotron . . . **105** (1972) 329
htfoot, B., *see* Kay . . . **110** (1973) 435
enfeld, H. V., *see* Grover . . . **105** (1972) 189
, E. K., *see* Hsu . . . **106** (1973) 513
denbaum, S. J., *see* Foley . . . **108** (1973) 33

Lindfors, B., Calculation of the relative counting rate of a well-type sodium iodide scintillation crystal in isotopic neutron source activation analysis **109** (1973)
Lindgren, I., *see* Olsmats **103** (1972)
Lindner, E., *see* Keil **101** (1972)
Lindner, E., *see* Keil **104** (1972)
Lindquist, J., *see* Hodges **108** (1973)
Lindskog, J., R. Hallin, A. Marelius, J. Bromander, J. Pihl and R. Sjödin, Beam-foil spectra from highly ionized chlorine and oxygen atoms (*abstract only – read by title*) **110** (1973)
Lindström, G., *see* Grube **101** (1972)
Lindström, G., *see* Belusa **101** (1972)
Lingeman, E. W. A., W. L. Posthumus and H. W. Leenaarts, A multi-purpose data-handling system **102** (1972)
Lingeman, E. W. A., *see* Konijn **109** (1973)
Lipson, E. D. and J. C. Vanderleeden, A Monte Carlo calculation of the analyzing efficiency of gamma-ray circular polarimeters **104** (1972)
Liskien, H., *see* Paulsen **105** (1972)
Litjaev, V. M., *see* Doolin **108** (1973)
Litt, J., *see* Benot **105** (1972)
Liu, C. H., *see* Church **110** (1973)
Liu, C. H., *see* Church **110** (1973)
Liu, F. F., *see* Fries **107** (1973)
Liu, Y. C., *see* Hsu **106** (1973)
Livingston, A. E., *see* Irwin **110** (1973)
Livingston, A. E., *see* Irwin **110** (1973)
Ljubičić, A., *see* Logan **104** (1972)
Ljubičić, A., *see* Logan **108** (1973)
Ljubičić, A., *see* Jones **109** (1973)
Llacer, J., A large volume high purity germanium radiation detector **104** (1972)
Lobb, D. E., The change in beam spot size due to second-order effects in a first-order achromatic beam transport system **103** (1972)
Lobb, D. E., Methods for calculating the effects of errors which increase the beam spot size at the end of a beam transport system **105** (1972)
Loebenstein, H. M. and Y. Gazit, A sample beam charge monitor for neutron generators **108** (1973)
Logan, B. A., The optimisation of possible tests of the validity of time-reversal **102** (1972)
Logan, B. A., R. T. Jones and A. Ljubičić, A Compton spectrometer constructed with Si(Li) and Ge(Li) detectors **104** (1972)
Logan, B. A., R. T. Jones and A. Ljubičić, A figure of merit for gamma-ray polarimeters **108** (1973)
Logan, B. A., *see* Jones **109** (1973)
Löhken, R., *see* Flothmann **102** (1972)
Lohken, R., *see* Gils **105** (1972)
Lombardi, M., *see* Gaillard **110** (1973)
Long, A. B., *see* Bohn **109** (1973)
Loper, G. D. and G. E. Thomas, Gamma-ray intensity standards: The reactions ^{14}N(n,γ)^{15}N, ^{35}Cl(n,γ)^{36}Cl and ^{53}Cr(n,γ)^{54}Cr **105** (1972)
Lorenzi, R., *see* Dahlgren **103** (1972)
Lori, J., *see* Bøttiger **109** (1973)
Lougheed, R. W., *see* Evans **102** (1972)
Love, L. O., *see* Alton **102** (1972)
Love, T. A., *see* Bertrand **101** (1972)
Love, W. A., *see* Foley **108** (1973)
Loveland, W. D., *see* Nunnelley **105** (1972)
Lowe, L. M., J. F. Boulter and W. V. Prestwich, Interaction between correlated and uncorrelated time-interval distributions in start-stop time-to-amplitude converters **105** (1972)
Lowenstein, D. I., A computer program to control the electronic acquisition of digitized information in nuclear experiments, "ELAINE" **109** (1973)
Lucas, P., *see* Bogert **107** (1973)
Luckey, D., *see* Busza **105** (1972)
Ludlam, T., *see* Bogert **107** (1973)
Luhrs, G., *see* Ehrenberg **105** (1972)
Lund, T., *see* Baldwin **101** (1972)
Lundeen, S. R., Y. L. Yung and F. M. Pipkin, Separated oscillatory field measurements on fast hydrogen **110** (1973)
Lutkin, J. E. and G. W. McBeth, The neutron energy distribution from Am-Be determined by a time of flight technique **107** (1973)
Lutz, H. O., *see* Pinnington **110** (1973)
Luxton, G., *see* Halliwell **102** (1972)

ch, A. W., R. T. Meyer and J. M. Freese, An explosively actuated reaction vessel for gas injection and high vacuum applications in pulsed energy experiments . . . **106** (1973) 605

ayouf, R. M. A., *see* Galloway . . . **105** (1972) 561
ck, B., *see* Ayres . . . **107** (1973) 131
cDonald, Burns, *see* Fredrickson . . . **107** (1973) 205
cDonald, J. R., *see* Cocke . . . **110** (1973) 493
cFarlane, R. D., *see* Abbe . . . **102** (1972) 73
cFarlane, R. D., *see* Bowman . . . **103** (1972) 61
cFarlane, R. D., *see* Wien . . . **103** (1972) 181
cKenzie, I. K. and J. L. Campbell, On the use of single escape peak in Ge(Li) spectroscopy . . . **101** (1972) 149
cklin, R. L., F. M. Glass, J. Halperin, R. T. Roseberry, H. W. Schmitt, R. W. Stoughton and M. Tobias, Neutron multiplicity counter . . . **102** (1972) 181
ddox, Wm. E., *see* Beyer . . . **110** (1973) 61
den, D. and R. A. Rosner, A multi-terminal interactive graphics system using a small computer **104** (1972) 375
dey, R., *see* Baldwin . . . **101** (1972) 363
dey, R. and F. M. Waterman, The response of Ne-228 liquid scintillator to 3.5, 5.8 and 10.5 MeV protons . **104** (1972) 253
dey, Richard and Frank M. Waterman, A time-of-flight spectrometer for neutrons from 1 to 500 MeV . . **106** (1973) 89
djar, N., *see* Brossard . . . **101** (1972) 107
glich, B., *see* Alspector . . . **103** (1972) 239
glich, B. and F. Sannes, "MEGAHPOL" – A fast on-line noncomputer multiparameter data reduction system **103** (1972) 245
hlav, M., *see* Kedem . . . **102** (1972) 87
honey, J., *see* Harvey . . . **104** (1972) 21
idikov, V. Z., *see* Basargin . . . **102** (1972) 125
ier-Komor, P., A simple technique of producing thin carbon films . . . **102** (1972) 485
io, Armand D. and William S. Bickel, Beam-foil spectra of phosphorus (1.5 to 6 MeV) . . . **110** (1973) 27
io, A.D., *see* Chow . . . **110** (1973) 469
ika, R., *see* Atac . . . **106** (1973) 389
k, H.-B., H. B. Jensen and C. A. Barnes, Absolute measurement of accelerator beam energy by the time-of-flight technique . . . **109** (1973) 529
kino, M., *see* Eisberg . . . **101** (1972) 85
lakhov, A. I., *see* Astvatsaturov . . . **107** (1973) 105
laroda, R. and G. Zecchin, A simple device for track counting in nuclear emulsions . . . **105** (1972) 597
nfredi, P. F., *see* Bellini . . . **107** (1973) 85
ngo, S., *see* Hartmann . . . **106** (1973) 9
njakov, P. K., *see* Basiladze . . . **106** (1973) 157
nthuruthil, J. C., *see* Hamilton . . . **103** (1972) 277
rangoni, G., *see* Bosia . . . **105** (1972) 117
rcou, J., *see* Wartski . . . **106** (1973) 103
relius, A., *see* Lindskog . . . **110** (1973) 517
ringelli, M., *see* Bosia . . . **105** (1972) 117
rino, D., *see* Abbattista . . . **101** (1972) 589
rkees, A., *see* Czapek . . . **105** (1972) 609
rkham, R. G., *see* Fulbright . . . **108** (1973) 125
rković, M. I., Some remarks on the Nelkin model for neutron scattering in water . . . **106** (1973) 519
rkowitz, Samuel S., *see* Fee . . . **109** (1973) 445
rrello, V., T. A. McMath, J. W. Mayer and I. L. Fowler, High-purity germanium γ-ray spectrometers with Al regrowth p^+ contacts . . . **108** (1973) 93
rrs, R. E., *see* Wilkinson . . . **105** (1972) 505
rrus, Richard, Forbidden decay modes of one- and two-electron ions (*invited talk*) . . . **110** (1973) 333
rrus, Richard, *see* Schmieder . . . **110** (1973) 459
rschik, W., *see* May . . . **108** (1973) 375
rschik, W., *see* May . . . **108** (1973) 377
rschik, W., *see* May . . . **109** (1973) 199
rseguerra, Marzio, *see* Arcipiani . . . **108** (1972) 301
rtel, J. G. and N. T. Olson, Ion bombardment induced photon and secondary electron emission . . . **105** (1972) 269
rtemianov, V. P., *see* Khakimov . . . **103** (1972) 135
rtin, Diana and Mirela Nemes, A method for obtaining programmed beam single shots and pulse trains from a diode gun linear electron accelerator . . . **105** (1972) 605
rtin, E. Ray, A direct-reading arithmetic unit for nondestructive assay of nuclear materials . . . **109** (1973) 439
rtin, F., S. J. St. Lorant and W. T. Toner, A four-meter long superconducting magnetic flux exclusion tube for particle physics experiments . . . **103** (1972) 503
rtin, G. A., *see* Smith . . . **110** (1973) 219

Martin, J. C., *see* Simmons . . . **106** (1973
Martinson, Indrek, Recent developments in beam-foil spectroscopy (*invited talk*) . . . **110** (1973
Martinson, I., *see* Hontzeas . . . **110** (1973
Martinson, I., *see* Curtis . . . **110** (1973
Marton, J. P., *see* Harms . . . **109** (1973
Mašek, J., *see* Bartošek . . . **104** (1972
Mass, B., *see* Bradbury . . . **110** (1973
Massam, T., *see* Basile . . . **101** (1972
Massam, T., *see* Gabriele . . . **108** (1973
Massonnet, L., *see* Niebergall . . . **101** (1972
Masterson, Keith D. and John O. Stoner, Jr., A method for measuring cascade-free mean lives . . . **110** (1973
Masuda, Masayoshi, *see* Yamaguchi . . . **106** (1973
Matin, M., *see* Alspector . . . **103** (1972
Matsuda, H., *see* Wollnik . . . **102** (1972
Matsuda, H. and H. Wollnik, Third order transfer matrices for the fringing field of magnetic and electrostatic quadrupole lenses . . . **103** (1972
Matsuda, H., *see* Matsuo . . . **103** (1972
Matsuda, K., *see* Ōkuma . . . **102** (1972
Matsuo, T., *see* Wollnik . . . **102** (1972
Matsuo, T., H. Matsuda and H. Wollnik, Particle trajectories in a toroidal condenser calculated in a third order approximation . . . **103** (1972
Matt, W., Errors in momentum and direction of bubble chamber tracks taking into account energy loss . . . **107** (1973
Mattern, P. L., *see* Goldberg . . . **108** (1973
Matulenko, Yu. A., *see* Derevshchikov . . . **108** (1973
Matumoto, Z., *see* Ohya . . . **102** (1972
Maurenzig, P. R., *see* Cambi . . . **103** (1972)
May, F. und W. Marschik, Zeitschaltungen mit COSMOS-Bausteinen, I . . . **108** (1973)
May, F. und W. Marschik, Zeitschaltungen mit COSMOS-Bausteinen, II . . . **108** (1973)
May, F. und W. Marschik, BCS-Addition und Subtraktion mit Binäraddierwerken . . . **109** (1973)
May Su, *see* Yin Yin Hla . . . **104** (1972)
Mayer, J. W., *see* Marrello . . . **108** (1973)
Mayes, B. W., *see* Coulson . . . **101** (1972)
McBeth, G. W., *see* Lutkin . . . **107** (1973)
McBreen, B., *see* Koch . . . **108** (1973)
McCarthy, R. L., *see* Graven . . . **102** (1972)
McClure, D. A., N. S. Kendrick and J. W. Lewis III, A three-parameter magnetic tape data recording system . **103** (1972)
McCrary, J. H. and C. M. Edmonds, Portable X-ray fluorescence single element analyzer . . . **109** (1973)
McDaniel, Floyd D., *see* Sherwood . . . **107** (1973)
McDonald, W. J., *see* Elbakr . . . **105** (1972)
McEllistrem, M. T., *see* Sherwood . . . **107** (1973)
McGeorge, J. C., *see* Hansen . . . **106** (1973)
McGeorge, J. C., *see* Chew . . . **106** (1973)
McGill, B., *see* Blum . . . **104** (1972)
McGill, W., *see* Blum . . . **104** (1972)
McKeown, J., L. G. Greeniaus, J. V. Jovanovich, W. F. Prickett, K. F. Suen and J. C. Thompson, A two-arm wire chamber spectrometer for use at 30–50 MeV incident proton energies . . . **104** (1972)
McKeown, J., Ferrite core read out with software decoding . . . **104** (1972)
McKeown, J., *see* Greeniaus . . . **104** (1972)
McKeown, J., *see* Crawford . . . **109** (1973)
McKnight, R. H., *see* Thornton . . . **101** (1972)
McLeod, C., *see* Bentley . . . **104** (1972)
McMahon, T. J., *see* Bentley . . . **104** (1972)
McMath, T. A., *see* Marrello . . . **108** (1973)
McMurray, W. R., *see* Kritzinger . . . **101** (1972)
McMurray, W. R., *see* Verbruggen . . . **104** (1972)
McNelles, L. A., *see* Campbell . . . **101** (1972)
McNelles, L. A. and J. L. Campbell, Absolute efficiency calibration of coaxial Ge(Li) detectors for the energy range 160–1330 keV . . . **109** (1973)
McNelles, L. A., *see* Herman . . . **109** (1973)
McReynolds, J. F., D. Newton and W. A. Wenzel, A 2π steradian magnetic spectrometer . . . **103** (1972)
Measday, D. F., *see* Renberg . . . **104** (1972)
Meeus, M., *see* DeLaet . . . **101** (1972)
Meir, A., *see* Alexander . . . **105** (1972)

ter, H. and B. Weckermann, Neutron collimators with plates of self-contracting foils **108** (1973) 107
kumov, G. L., *see* Astvatsaturov **107** (1973) 105
es, J., *see* Abrams **107** (1973) 569
itet, L., *see* Brossard **101** (1972) 107
iwether, J. R., *see* Harvey **104** (1972) 21
le, K., *see* Ehrenberg **105** (1972) 253
lo, J. P., *see* Autones **103** (1972) 211
rigan, J. A., *see* Kelly **109** (1973) 233
zger, G., *see* Meyer **103** (1972) 601
zger, G., *see* Barrier **107** (1973) 407
leman, J., *see* Jacob **101** (1972) 51
nier, R., *see* Benot **105** (1972) 431
er, J. M., M. Perrin, D. Mlynek, M. Lehmann et G. Metzger, Un contrôleur de système Camac **103** (1972) 601
er, J. M., *see* Barrier **107** (1973) 407
er, R. T., *see* Lynch **106** (1973) 605
er, Walter, *see* Mutone **106** (1973) 445
hael, D. N., *see* Abrams **107** (1973) 569
halowski, S., *see* Attenberger **107** (1973) 605
haylov, Yu. V., *see* Bushnin **106** (1973) 493
hel, M. C., *see* Hadeishi **110** (1973) 445
hikawa, Taichi and Toshikazu Yoneyama, A fast time analyzer embodying a high speed plated wire memory **106** (1973) 35
, E., *see* Fettweis **101** (1972) 163
avzic, U., *see* Brajnik **103** (1972) 189
ar, T. W. and J. V. Jovanovich, Use of wire chambers in improving energy resolution of large scintiliation counters **104** (1972) 447
ard, W. A., *see* Grannan **103** (1972) 99
ler, D. H., *see* Graven **102** (1972) 45
ler, G. H., P. Dillard, M. Eckhause and R. E. Welsh, Determinations of nuclear level halflives in ^{85}Rb and ^{237}Np and their use as timing standards **104** (1972) 11
ler, T. G., *see* Knox **101** (1972) 519
ev, L., *see* Goumnerova **103** (1972) 253
ela Nemes, Note on the expansion of cylindrical beams due to space-charge effects with uniform acceleration **108** (1973) 201
ry, N., *see* Attenberger **107** (1973) 605
chell, C. K., *see* Salzman **109** (1973) 61
chell, G. E., *see* Dzubay **101** (1972) 407
zlaff, W. A., *see* Brauer **102** (1972) 223
kodaj, R. L., *see* Schmidt-Ott **108** (1973) 13
nek, D., *see* Meyer **103** (1972) 601
L. W., *see* Burns **106** (1973) 171
erg, L., Time delay effects in a neutron detector surrounded by polythene and applied to a statistical neutron counting experiment **106** (1973) 357
kett, P. M., *see* Abrams **107** (1973) 569
ler, W. and D. Kamke, Properties of a high current, long life lithium ion source **105** (1972) 173
acelli, P., *see* D'Angelo **103** (1972) 197
ico, J., *see* Achterberg **101** (1972) 555
nig, F., *see* Engler **106** (1973) 189
re, C. F., *see* Picone **105** (1972) 377
rhead, R. D., *see* Poppa **102** (1972) 521
agues, J. A., *see* Achterberg **101** (1972) 555
eh, R. and T. Bar-Noy, Utilization of 11.4 MeV photons from the ^{59}Ni(n,γ)^{60}Ni reaction for scattering experiments **105** (1972) 557
ehause, C. C., *see* Hartmann **106** (1973) 9
et, H. and F. Verheyen, Assay of samples for nuclear measurements by physical methods **102** (1972) 575
gado, R. E., *see* Cence **108** (1973) 113
gan, J. F., *see* Chang **109** (1973) 327
gan, Jr., S. H. and P. B. Eby, Corrections to the Bethe–Bloch formula for average ionization energy loss of relativistic heavy nuclei **106** (1973) 429
ii, Tsuneo, *see* Inoue **108** (1973) 385
inobu, S. and H. Ikegami, A high potential electron pre-accelerator for use with a magnetic beta-ray spectrometer **104** (1972) 93
lot, F., *see* Fois **103** (1972) 71
omisato, J. and D. Garelick, A spark chamber with improved time resolution **101** (1972) 397
rison, R. C., *see* Anderl **102** (1972) 101

Mortimer, A. R., *see* Ayres . . . **107** (1973)
Moses, J. D., *see* Dzubay . . . **101** (1972)
Moszyński, M., *see* Bialkowski . . . **105** (1972)
Motta, R., *see* Blum . . . **104** (1972)
Mougel, J. F., *see* Autones . . . **103** (1972)
Movchet, J., *see* Autones . . . **103** (1972)
Moxham, R. M., *see* Senftle . . . **104** (1972)
Moxham, R. M., *see* Senftle . . . **109** (1973)
Moyer, W. R. and J. R. Tatarczuk, A general ADC/computer interface . . . **102** (1972)
Mozhaev, V., *see* Doolin . . . **105** (1972)
Mozley, R. F., *see* Fries . . . **107** (1973)
Muga, L., Position sensitive response of a thin film detector to the passage of alpha particles . . . **105** (1972)
Muga, L. and G. Griffith, Response of thin film scintillator detector to light and heavy ions . . . **109** (1973)
Muga, M. L., D. J. Burnsed and W. E. Steeger, Recipe for making a thin film detector . . . **104** (1972)
Muggleton, A. H. F., Semiconductor X-ray spectrometers . . . **101** (1972)
Mukherjee, P., *see* Das Mahapatra . . . **107** (1973)
Mukhin, S. V., *see* Horvath . . . **108** (1973)
Müller, H., *see* Schmid . . . **101** (1972)
Müller, H. H., *see* Gass . . . **106** (1973)
Müller, R., U. Peyer, W. Wölfli, J. Hall and M. Suter, A programming system for multi-parameter experiments and its application to nuclear bremsstrahlung measurements . . . **104** (1972)
Müllner, M. and H. Jex, Converter-thickness for optimum intensity in neutron-radiography . . . **103** (1972)
Mulvey, J. H., *see* Harris . . . **107** (1973)
Murata, Y., S. Izumi and T. Sanda, A new method for digital power spectrum analysis . . . **108** (1973)
Murphy, F., *see* Halliwell . . . **102** (1972)
Murray, K. M., An absolute silicon-dose calorimeter . . . **107** (1973)
Musin, M. A., *see* Zrelov . . . **103** (1972)
Musket, R. G. and W. Bauer, Detection of proton-induced $C(K_\alpha)$ X-rays with Si(Li) detectors . . . **109** (1973)
Musket, R. G. and W. Bauer, Determination of gold-layer and dead-layer thicknesses for a Si(Li) detector . . . **109** (1973)
Mutchler, G. S., *see* Coulson . . . **101** (1972)
Mutone, G. A. and Walter Meyer, Neutron spectra estimation from proton recoil data . . . **106** (1973)

Nagamine, K., N. Nishida and H. Ishimoto, A compact 'two-step' dilution refrigerator for low temperature nuclear polarization . . . **105** (1972)
Nakagome, Y., *see* Okano . . . **104** (1972)
Nakajima, T., The standardization of a circular disc source of β^+-emitters by the β^+-annihilation γ–γ coincidence method . . . **109** (1973)
Nakamura, Hiroshi, Fernand Reide and Toshiko Yuasa, A detection system with a large liquid scintillation counter for high energy neutron studies with neutron gamma discrimination . . . **108** (1973)
Nakamura, T., Monte Carlo calculation of efficiencies and response functions of NaI(Tl) crystals for thick disk gamma-ray sources and its application to Ge(Li) detectors . . . **105** (1972)
Nakano, Y., *see* Okano . . . **104** (1972)
Nakayama, Takeyoshi and Minoru Kawano, Background current of the liquid ionization chamber . . . **108** (1973)
Namboodiri, M. N., F. H. Ruddy and John M. Alexander, Detection efficiency of annular geometry used in fission isomer studies . . . **108** (1973)
Nandi, B. C., *see* Ayre . . . **102** (1972)
Nash, T., *see* Halliwell . . . **102** (1972)
Nath, R., F. W. K. Firk and H. L. Schultz, Effects of photon collimators on the spectral distribution of bremsstrahlung radiation between 20 and 35 MeV . . . **108** (1973)
Natowitz, J. B., *see* Chulick . . . **109** (1973)
Navach, F., *see* Basile . . . **101** (1972)
Navarra, G., *see* Bosia . . . **105** (1972)
Navarria, F. L., *see* Basile . . . **101** (1972)
Neary, Michael P., *see* Noakes . . . **109** (1973)
Nefkens, B. M. K., *see* Sober . . . **108** (1973)
Nefkens, B. M. K., *see* Sober . . . **109** (1973)
Neilson, G. C., *see* Elbakr . . . **105** (1972)
Nelson, B., *see* Hodges . . . **108** (1973)
Nemenov, L. M., *see* Arzumanov . . . **106** (1973)
Nemes, Mirela, *see* Martin . . . **105** (1972)
Nemirovsky, I. B., *see* Baragiola . . . **110** (1973)
Neskakis, A., *see* Canty . . . **106** (1973)
Neuhausen, R., *see* Ehrenberg . . . **105** (1972)

e de Mévergnies, M., Equipment and techniques for the study of the decay of $^{235}\mathrm{U}^{m}$ . . . **109** (1973) 145
vson, H. W., *see* Dzubay . . . **101** (1972) 407
vton, C. S., *see* Price . . . **108** (1973) 605
vton, D., *see* McReynolds . . . **103** (1972) 397
uyen Ngoc, H., *see* Blum . . . **104** (1972) 285
uyen Ngoc, H., *see* Blum . . . **104** (1972) 509
uyen, van Sen, *see* Perrin . . . **101** (1972) 603
olaides, Cleanthis A., Theory of "non-stationary" states in many-electron atoms . . . **110** (1973) 231
otera, E., *see* Antonini . . . **104** (1972) 147
bergall, F., M. Regler, K. Winter, J.-J. Aubert, X. de Bouard, V. Lepeltier, L. Massonnet, H. Pessard, M. Vivargent, T. R. Willitts, M. Yvert, W. Bartl and M. Steuer, A system of cylindrical wire spark chambers . . . **101** (1972) 321
lsen, A. Kirkegård, *see* Andersen . . . **110** (1973) 143
wisch, J., *see* Kilian . . . **101** (1972) 359
nikoski, T. O., *see* Borghini . . . **105** (1972) 215
mis, M., V. Sangiust, M. Terrani and S. Terrani, Neutron spectrum measurement with fissile detectors . . . **109** (1973) 285
mis, M. L., *see* Dierckx . . . **105** (1972) 1
hida, N., *see* Nagamine . . . **105** (1972) 265
, D., *see* Hansen . . . **106** (1973) 365
akes, John E., Michael P. Neary and James D. Spaulding, Tritium measurements with a new liquid scintillation counter . . . **109** (1973) 177
bes, M., A simple method for making a fast inorganic scintillator screen for the detection of fission fragments **109** (1973) 275
blet, A., Étude du regroupement par modulation de vitesse à *n* fentes . . . **102** (1972) 245
cken, U., *see* Quast . . . **109** (1973) 407
ggle, T. S., The preparation and characterization of single crystal silver films . . . **102** (1972) 539
lan, P. J., *see* Butler . . . **108** (1973) 497
ldeke, G., *see* Ehrenberg . . . **105** (1972) 253
mura, T. and K. Hiruta, A method of measuring alpha-decays in the nanosecond range . . . **108** (1973) 61
rem, J., *see* Alspector . . . **103** (1972) 239
namaker, T. A., *see* Burns . . . **106** (1973) 171
namaker, Thomas A., Universal wire detector CAMAC scanner . . . **106** (1973) 557
namaker, Thomas A., *see* Solomon . . . **107** (1973) 15
nes, A. C., A simple neutron diffractometer for low angle biological studies . . . **108** (1973) 189
nnelley, L., B. Boynton and W. D. Loveland, A precise timing method for the determination of short half-lives . . . **105** (1972) 593
rushev, S. B., *see* Derevshchikov . . . **108** (1973) 381
spliger, R. J., *see* Kritzinger . . . **101** (1972) 573
man, B., *see* Johansson . . . **108** (1973) 225
man, B., Techniques for fast evaluation of Ge(Li)-detector gamma-ray spectra with small computers . . . **108** (1973) 237

ert, J., *see* Bernas . . . **107** (1973) 423
Brien, K., Star production by high-energy hadrons . . . **101** (1972) 551
Connor, D. A. and G. Skyrme, The determination of the recoilless fraction of Mössbauer absorbers . . . **106** (1973) 77
ian, A. C., *see* Fries . . . **107** (1973) 141
Donnell, F. R., *see* Kuehn . . . **102** (1972) 403
Donnell, F. R. and H. L. Adair, Tritium-containing targets for high-yield neutron generators . . . **102** (1972) 501
ata, A., *see* Wang . . . **108** (1973) 253
ata, Atsushi and Gen'ichi Horikoshi, Multichannel delay cable system for CRT display of fast simultaneous signals . . . **108** (1973) 615
urtzov, V. V., *see* Khakimov . . . **103** (1972) 135
kubo, M., VSWR measurements of linear accelerator structures by a photographic method . . . **103** (1972) 53
lsen, Gerald G. and P. W. Keaton, Jr., Techniques for measurement of spin-$\frac{1}{2}$ and spin-1 polarization analyzing tensors . . . **109** (1973) 41
lsen, G. G., *see* Salzman . . . **109** (1973) 61
ya, S., T. Tamura and Z. Matumoto, Internal conversion electron measurement using a β-e and β-γ coincidence apparatus . . . **102** (1972) 121
abe, S., *see* Tabata . . . **103** (1972) 85
abe, S., K. Tsumori and T. Tabata, Transient electron current observed in gas ionization chambers . . . **104** (1972) 109
abe, S., *see* Fukuda . . . **109** (1973) 305
ano, K., Y. Nakagome, Y. Kawase, S. Uehara, Y. Nakano, K. Kanda and T. Shibata, An automatic irradiation apparatus with on-line measurement system for the study of short-lived activities . . . **104** (1972) 13
ano, K., Y. Kawase and T. Hayashi, Gamma-gamma angular correlation apparatus with on-line irradiation system for the study of short-lived isotopes . . . **108** (1973) 279

OKANO, K. and Y. KAWASE, A sample changer for automatic irradiation apparatus **108** (1973)
OKUMA, Y., K. YAGI, I. KUMABE and K. MATSUDA, Measurements of inhomogeneities of magnetic fields in a model beam-analyzing magnet **102** (1972)
OLSMATS, M., *see* EKSTRÖM **103** (1972)
OLSMATS, M., B. WANNBERG and I. LINDGREN, Optimum design of a focussing atomic-beam magnetic resonance apparatus **103** (1972)
OLSMATS, M. and B. WANNBERG, Calculations on the ion-beam transport system of the tandem accelerator at Uppsala **107** (1973)
OLSON, N. T., *see* MARTEL **105** (1972)
ONG, A. S., L. R. ZUMWALT and C. H. FOX, Diffusion solutions of recoiled non-volatile fission products in solids **105** (1972)
OONA, H. and W. S. BICKEL, X-ray spectral studies in beam-foil spectra **110** (1973)
OOSTENS, J., *see* ALSPECTOR **103** (1972)
OREN, Y., *see* ALEXANDER **105** (1972)
ORMES, JONATHAN F., *see* CRANNELL **108** (1973)
ORMES, JONATHAN F., *see* WHITESIDE **109** (1973)
ORPHAN, V. J., C. G. HOOT and J. JOHN, Use of a Ge(Li) total-absorption spectrometer in $(n, x\gamma)$ measurements **101** (1972)
ORTLEPP, H.-G., *see* AKIMOV **104** (1972)
ORWIG, L. E., *see* FORREST **101** (1972)
OSBORNE, R. V. and A. S. COVEART, A portable monitor for tritium in air **106** (1973)
OSTROWSKI, G. E., *see* KLEB **106** (1973)
OTERO, D., *see* ACHTERBERG **101** (1972)
ØVERÅS, H., Dead-time losses in a buffered data recording system **104** (1972)
OZAKI, S., *see* FOLEY **108** (1973)
ÖZSAN, F. E., *see* BATEMAN **108** (1973)

PACER, J. C., *see* KENNEDY **101** (1972)
PADGETT, T., *see* ATTENBERGER **107** (1973)
PAGE, D. E., *see* ANDRESEN **102** (1972)
PAGE, D. E., *see* SANDERSON **104** (1972)
PAPE, A., J. C. SENS, P. FINTZ, A. GALLMANN, H. E. GOVE, G. GUILLAUME and D. M. STUPIN, Quantitative X-ray analysis **105** (1972)
PAPIERNIK, A., *see* WARTSKI **106** (1973)
PARETZKE, H. G., T. A. GRUHN and E. V. BENTON, The etching of polycarbonate charged particle detectors by aqueous sodium hydroxide **107** (1973)
PARETZKE, H. G., E. V. BENTON and R. P. HENKE, On particle track evolution in dielectric track detectors and charge identification through track radius measurement **108** (1973)
PARIZET, M. J., *see* ROCHE **103** (1972)
PARK, J., *see* FRIES **107** (1973)
PARKER, S. I., *see* HARRIS **103** (1972)
PARKER, S., *see* KATSURA **105** (1972)
PARKER, S., *see* HARRIS **107** (1973)
PASIEKA, K., *see* HERMSDORF **107** (1973)
PASINETTI, A., *see* ROCHE **101** (1972)
PASTOR, C., *see* BROSSARD **101** (1972)
PATE, B. C., *see* WIESEHAHN **109** (1973)
PATE, B. D., *see* DAUTET **107** (1973)
PATE, BRIAN D., *see* KIELY **109** (1973)
PATRICK, J. R., A. S. RUPAAL and L. E. SPANEL, A low energy positron spectrometer **107** (1973)
PATSCHER, W., *see* DIETZ **108** (1973)
PAUL, J., *see* BIGNAMI **108** (1973)
PAULSEN, A., H. LISKIEN and M. COSACK, Flux density measurements for 250 keV neutrons from the T(p, n) source reaction **105** (1972)
PAULUS, J. M., *see* IGERSHEIM **109** (1973)
PAVLOVIČ, P., *see* ZRELOV **103** (1972)
PAVLOVIČ, P., *see* ZRELOV **105** (1972)
PAVLOVIČ, P., *see* ZRELOV **107** (1973)
PAVŠIČ, M., *see* KREGAR **109** (1973)
PEARCE, R. M., *see* COBB **106** (1973)
PEELLE, R. W., *see* BERTRAND **101** (1972)
PEGG, D. J., P. M. GRIFFIN, I. A. SELLIN and WINTHROP W. SMITH, Electron spectroscopy of foil excited chlorine beams **110** (1973)
PEGORARO, A. and G. QUIRCI, Goniometer for implantation and channeling experiments **103** (1972)

rce, J. B., On optimum chopping **103** (1972) 435
ah, I., *see* Kedem **102** (1972) 87
legrin, Jean-Louis, Beam feedback electronics for the SPEAR storage ring **108** (1973) 365
liccioni, M., *see* Ladu **101** (1972) 383
liccioni, M., *see* Ladu **104** (1972) 5
zl, J., Optimum absorber thickness for single line Mössbauer effect in the presence of strong non-resonant absorption **102** (1972) 349
in, M., *see* Renberg **104** (1972) 157
dijon, J., Choix d'un système de transfert adaptable à un générateur de neutrons pour l'analyse séquentielle par activation **107** (1973) 189
due, P. T., *see* Thorngate **105** (1972) 57
egood, B. P., Magnetic prism beta-ray spectrometers; A review **104** (1972) 343
ez, M. L., *see* Achterberg **101** (1972) 555
ez-Mendez, V., *see* Kaplan **106** (1973) 397
ez-Mendez, V., *see* Grove **106** (1973) 407
ez-Mendez, Victor, *see* Fredrickson **107** (1973) 205
kins, J. G. and P. T. Stroud, Transmission sputtering and recoil implantation from thin metal films under ion bombardment **102** (1972) 109
nestål, K., *see* Wäppling **109** (1973) 1
rin, G., Nguyen van Sen, A. Fiore and J. Arvieux, Absolute calibration of a ^{12}C polarimeter for deuterons between 20 and 30 MeV **101** (1972) 603
rin, M., *see* Meyer **103** (1972) 601
ry, Scott K. and F. P. Brady, A comparative study of alpha and X-ray induced X-ray emission for elemental analysis **108** (1973) 389
hekhonov, V. D., *see* Guzik **104** (1972) 337
sard, H., *see* Niebergall **101** (1972) 321
er, J., *see* Lecerf **104** (1972) 189
erman, B. F., Monte Carlo calculation of the self-absorption of gamma rays in a disc shaped source **101** (1972) 611
erman, B. F., S. Hontzeas and R. G. Rystephanick, Monte Carlo calculations of relative efficiencies of Ge(Li) detectors **104** (1972) 461
ersen, D., *see* Brenner **103** (1972) 469
erson, D. G., Proton beam positioning system with computer control **104** (1972) 451
erson, V. Z., *see* Harris **103** (1972) 345
erson, V. Z., *see* Katsura **105** (1972) 245
erson, V. Z., *see* Harris **107** (1973) 413
raske, E. W., *see* Lakin **103** (1972) 431
rov, I. A., E. V. Shpak and S. Ya. Yavor, Electrostatic prism spectrometer with quadrupole lenses **101** (1972) 505
tersson, B.-G., *see* Stefánsson **106** (1973) 289
tersson, H., *see* Johansson **108** (1973) 225
er, U., *see* Müller **104** (1972) 125
re, J. J. and G. Principi, Linear combination of Lorentzian and Gaussian profiles to fit resonance spectra **101** (1972) 605
ffer, W., B. Kohlmeyer and W. F. W. Schneider, A fast zero-time detector for heavy ions using the channel electron multiplier **107** (1973) 121
ffermann, E., *see* Bignami **108** (1973) 257
ifer, J., *see* Watson **105** (1972) 33
eger, J. C. et J. P. Weymann, Système numérique de commande d'un ensemble de mesure de distribution et corrélation angulaire **106** (1973) 135
lipp, G., *see* Vogler **101** (1972) 167
lipp, G., *see* Hofmann **101** (1972) 467
llips, G. C., *see* Coulson **101** (1972) 247
asso, E., *see* Farley **103** (1972) 325
chi, P., *see* Ladu **104** (1972) 5
one, J. M., J. F. Fitch, J. W. Baker, G. W. Hoffmann and C. F. Moore, In-beam axial β-ray spectrometer for the measurement of internal conversion electrons **105** (1972) 377
ozza, P., *see* Barbini **105** (1972) 515
koszewski, J., *see* Dabrowski **103** (1972) 545
l, J., *see* Lindskog **110** (1973) 517
cher, J., *see* Holder **108** (1973) 541
ler, O., W. Beer und J. Kern, Das fokussierende Kristallspektrometer der Universität Fribourg **107** (1973) 61
ler, O., *see* Beer **107** (1973) 79
amonti, M., *see* Achterberg **101** (1972) 555
kau, K., Analysis procedure of gamma ray astronomy spark chamber data **104** (1972) 517
kerton, J. E., *see* Avignone, III **107** (1973) 453

Pinnington, E. H., H. O. Lutz and G. W. Carriveau, Beam-foil spectroscopy of the transition elements chromium, cobalt and manganese **110** (1973)
Pinnington, E. H., H. G. Berry, J. Desesquelles and J. L. Subtil, Stark effect modulations in He II and Li III **110** (1973)
Pipitone, E., *see* Hoffmann **109** (1973)
Pipkin, F. M., *see* Lundeen **110** (1973)
Piragino, G., *see* Busso **102** (1972)
Plantamura, V. L., *see* Abbattista **101** (1972)
Platner, E. D., *see* Foley **108** (1973)
Plog, K., *see* Hartmann **106** (1973)
Pócza, J. F., *see* Barna **102** (1972)
Poenitz, W. P., The black neutron detector **109** (1973)
Poletti, G. and F. Rossitto, Resolution in experiments of angular correlation of annihilation photons **109** (1973)
Policarpo, A. J. P. L., M. A. F. Alves, M. C. M. Dos Santos and M. J. T. Carvalho, Improved resolution for low energies with gas proportional scintillation counters **102** (1972)
Ponpon, J. P., *see* Herzer **101** (1972)
Popielska, E., *see* Guzik **104** (1972)
Popielski, W., *see* Guzik **104** (1972)
Poppa, H., R. D. Moorhead and K. Heinemann, Experimental approaches to well controlled studies of thin-film nucleation and growth **102** (1972)
Porges, K. G. and S. J. Rudnick, Design of shift register delays for random asynchronous data input **103** (1972)
Porile, N. T., *see* Kennedy **101** (1972)
Porter, L. E. and C. L. Shepard, Mean excitation energies of several compounds and mixtures **107** (1973)
Posthumus, W. L., *see* Lingeman **102** (1972)
Povinec, P., Very low background proportional counter for tritium dating **101** (1972)
Pozsgai, I., *see* Barna **102** (1972)
Prasad, J., *see* Gill **107** (1973)
Prasad, R. D. G., *see* Ifran **107** (1973)
Preedom, B. M., *see* Saltmarsh **105** (1972)
Prentice, J. D., *see* Halliwell **102** (1972)
Preston, George W., The chemically peculiar stars of the upper main sequence (*invited talk*) **110** (1973)
Prestwich, W. V., *see* Lowe **105** (1972)
Preszler, A. M., *see* Grannan **103** (1972)
Prevot, F., *see* Bercherer **104** (1972)
Price, D. C., *see* Hembree **108** (1973)
Price, D. L., *see* Kleb **106** (1973)
Price, D. L., *see* Copley **107** (1973)
Price, P. B., M. J. Hollis and C. S. Newton, A simple technique for crystal alignment in channelling experiments **108** (1973)
Price, Robert D., *see* Crannell **108** (1973)
Prickett, W. F., *see* McKeown **104** (1972)
Principi, G., *see* Peyre **101** (1972)
Prokoshkin, Yu. D., *see* Bushnin **106** (1973)
Protić, D. and G. Riepe, Dead layers on semiconductor detectors for charged particle spectroscopy **101** (1972)
Protić, D., *see* Riepe **101** (1972)
Proto, A. N., *see* Achterberg **101** (1972)
Prudnikov, I. A., A. S. Toropov and Yu. F. Chichikalov, Design and sensitivity of a secondary emission monitor of accelerated electron position **101** (1972)
Pruitt, J. S., Correction to electron beam monitor papers **109** (1973)
Prunier, J., R. Allemand, M. Laval and G. Thomas, Some properties of xenon liquid-filled nuclear detectors **109** (1973)
Puhach, P. A., *see* Hanson **108** (1973)
Pühlhofer, F. G., *see* Harvey **104** (1972)
Purser, F. O., *see* Dzubay **101** (1972)

Quaglia, L., *see* Huez **105** (1972)
Quast, U. and U. Nocken, Variable detector mounting assembly for silicon surface barrier detectors **109** (1973)
Querrou, M., *see* Brossard **101** (1972)
Quirci, G., *see* Pegoraro **103** (1972)
Quittner, G. and G. Ernst, Gaussian approximation to the transmission function of a triple-axis neutron spectrometer **107** (1973)

Radermacher, E., *see* Holder **108** (1973)
Radziemski, Jr., L. J., *see* Stoner, Jr. **110** (1973)

SIDE, D. E., Bayesian statistics applied to the optimal estimation of background in routine nuclear counting procedures . . . **107** (1973) 5
GUPATHY, S., A simple 1024 channel pulse height analyser for nuclear pulse spectroscopy . . . **105** (1972) 357
KO, V. I., *see* ARLT . . . **102** (1972) 253
U, V., *see* VERMA . . . **104** (1972) 545
MAN, S., A simple method for accurate measurements of total internal conversion coefficients . . . **103** (1972) 407
MA RAO, P. N., *see* AJITANAND . . . **103** (1972) 169
MOS, A. GIL and P. N. COOPER, Improvements to a method of externally pulsing an accelerator . . . **109** (1973) 617
ND, R. E., *see* GUIRAGOSSIÁN . . . **107** (1973) 237
NDLE, T. C., *see* COUPLAND . . . **106** (1973) 595
, D. N., J. L. GLEN and D. TAYLOR, Comment on "Digital corrector for multichannel counting of short- and medium-lived nuclides" . . . **103** (1972) 175
OUL, J. C., *see* AUTONES . . . **103** (1972) 211
SMUSSEN, J. O., *see* HAMILTON . . . **103** (1972) 277
STIN, B. C., *see* CROOKES . . . **109** (1973) 371
SUVAEV, E. A., *see* BUSHNIN . . . **106** (1973) 493
TTI, S., *see* CECCHET . . . **103** (1972) 555
ED, R. E. and W. B. GRISHAM, Production and crystal growth of isotopic rare-earth metals . . . **102** (1972) 513
EVE, P. A., A conceptual study of a 300 MeV pion channel for TRIUMF . . . **107** (1973) 269
GLER, M., *see* NIEBERGALL . . . **101** (1972) 321
IDE, FERNAND, *see* NAKAMURA . . . **108** (1973) 509
IMER, D., *see* GREENIAUS . . . **104** (1972) 437
NBERG, P. U., D. F. MEASDAY, B. FAVIER, C. RICHARD-SERRE, M. PEPIN and P. SCHWALLER, Loss of protons in thin absorbers . . . **104** (1972) 157
QUEJO, R., *see* ACHTERBERG . . . **101** (1972) 555
OADES, T. G., *see* BENTLEY . . . **104** (1972) 299
CAUD, C., *see* DENIMAL . . . **109** (1973) 409
CE-EVANS, PETER and IBRAHIM HASSAIRI, On the pulsing of streamer chambers . . . **106** (1973) 345
CE-EVANS, PETER, Towards the triggered bubble chamber . . . **109** (1973) 525
CHARD-SERRE, C., *see* RENBERG . . . **104** (1972) 157
CHVICKIJ, S. V., *see* HORVATH . . . **108** (1973) 357
CKARD, I. C., The use of the lithium-6 semiconductor sandwich spectrometer for the measurement of fast-neutron spectra . . . **105** (1972) 397
CK, D., *see* WIEDNER . . . **105** (1972) 205
CK, JR., G., *see* BRAUER . . . **102** (1972) 223
PE, G., *see* PROTIĆ . . . **101** (1972) 55
PE, G. and D. PROTIĆ, Semiconductor detectors for charged particle spectroscopy in the 80 MeV range . . . **101** (1972) 77
PPO, R., Calculated photopeak efficiencies of NaI(Tl)-scintillation detectors with self-absoption in the source . **107** (1973) 209
UBLAND, J. M., *see* AUTONES . . . **103** (1972) 211
HINI, B., *see* BIANCHETTI . . . **105** (1972) 45
NGSTRÖM, B., *see* BÄVERSTAM . . . **108** (1973) 439
S, D., *see* BROSSARD . . . **101** (1972) 107
CHIE, A. I. M., *see* FRASER . . . **109** (1973) 137
TER, R. C., *see* THORNTON . . . **101** (1972) 607
BERTS, J. R., T. ANDERSEN and G. SØRENSEN, Determination of atomic lifetimes and absolute oscillator strengths for neutral and ionized titanium . . . **110** (1973) 119
BERTS, L., *see* ATTENBERGER . . . **107** (1973) 605
BERTS, W. AYTCH and CHARLES E. HEAD, Radiative lifetimes for singly and doubly ionized boron . . . **110** (1973) 99
BERTSON, B. C., *see* GREEN . . . **103** (1972) 173
BERTSON, B. C., *see* WHITE . . . **105** (1972) 29
BERTSON, L. P., *see* COBB . . . **106** (1973) 259
BINETTE, ROSALIE, J. G. COSGROVE and R. L. COLLINS, Optimum data reduction of complex Mössbauer spectra: $^{129}I_2$ . . . **105** (1972) 509
BSON, J. W., *see* LEAVITT . . . **110** (1973) 423
CCELLA, M., *see* LADU . . . **101** (1972) 383
CCELLA, M., *see* LADU . . . **104** (1972) 5
CH, M., *see* BLUM . . . **104** (1972) 509
CHE, G., J. P. COSTILHES, J. P. ALARD, A. BALDIT, J. DHERMAIN, J. FARGEIX, L. FRAYSSE, J. C. TAMAIN, A. CORDAILLAT, A. SICRE, M. AUDOUARD, M. CORNAGO and A. PASINETTI, Experimental set up to study the light nuclei production in p-nucleus interaction . . . **101** (1972) 231
CHE, G., J. ARNOLD, J. AUGERAT, L. AVAN, M. AVAN, J. BONNET, J. FARGEIX, A. FLEURY, J. JOUSSET, M. J. PARIZET and M. VIALLE, First results of triplet production measurements near the threshold with a streamer chamber technique; Experimental set-up . . . **103** (1972) 533

Roesler, F. L. and John O. Stoner, Jr.; High-resolution fast-beam spectroscopy using an off-axis Fabry–Perot interferometer . . . **110** (1973)
Rogers, F. J. G., *see* Glover . . . **102** (1972)
Rohloff, F., *see* Heinzelmann . . . **109** (1973)
Roland, S., *see* Wartski . . . **106** (1973)
Rollefson, A. A., *see* Goss . . . **109** (1973)
Ronzhin, A. I., *see* Baldin . . . **105** (1972)
Roodbergen, S., R. Kroondijk and H. Verheul, Cherenkov radiation in photomultiplier windows and the resulting time shift in delayed coincidence time spectra . . . **105** (1972)
Rosander, R., *see* Jensen . . . **104** (1972)
Rösch, E., G. Weickelt and D. Broström, Si-photodiodes as dosimeters for fast neutrons . . . **101** (1972)
Roseberry, R. T., *see* Macklin . . . **102** (1972)
Rosner, B. and I. Tserruya, A simple detection system for (H.I.,α) reactions . . . **105** (1972)
Rosner, B. and E. Ben-Hagay, Intensity calibration of medium energy neutron generators by the ^{115}In(n,n′)^{115}In^{m} reaction . . . **108** (1973)
Rosner, P., W. Vogl and G. Vogl, Special cryostat for Mössbauer effect investigations of lattice defects after low temperature neutron irradiation . . . **105** (1972)
Rosner, R. A., *see* Maden . . . **104** (1972)
Ross, D. K., *see* Brown . . . **109** (1973)
Rossel, J., *see* Bovet . . . **101** (1972)
Rossi, J. J., *see* Achterberg . . . **101** (1972)
Rossitto, F., M. Terrani and S. Terrani, Choice of neutron filters in activation analysis . . . **103** (1972)
Rossitto, F., *see* Poletti . . . **109** (1973)
Rost, A., *see* Görner . . . **109** (1973)
Rothbauer, R., Parabolisch gekrümmte Spiegel als Kondensoren thermischer und subthermischer Neutronenstrahlen . . . **101** (1972)
Rotival, M., Calcul du spectre énergétique des neutrons émis par un massif sous critique à partir d'une mesure de temps de vol . . . **105** (1972)
Round, V., *see* Blum . . . **104** (1972)
Rowe, J. M., *see* Kleb . . . **106** (1973)
Rowe, J. M., *see* Copley . . . **107** (1973)
Rowton, L., *see* Chapman . . . **106** (1973)
Roy, J. C., *see* Lachance . . . **104** (1972)
Roy, J. C., *see* Bellemare . . . **104** (1972)
Rubbia, C., *see* Holder . . . **108** (1973)
Rubbia, C., *see* Foeth . . . **109** (1973)
Rubin, A., *see* Alexander . . . **105** (1972)
Rubenstein, R., *see* Abrams . . . **107** (1973)
Ruddy, F. H., *see* Namboodiri . . . **108** (1973)
Rudnick, F. D., *see* Brenner . . . **103** (1972)
Rudnick, S. J., *see* Porges . . . **103** (1972)
Rudstam, G., *see* Erdal . . . **104** (1972)
Runge, H., *see* Boroffka . . . **107** (1973)
Runge, K., *see* Engler . . . **106** (1973)
Rupaal, A. S., *see* Patrick . . . **107** (1973)
Rustichelli, F., *see* Giacobbi . . . **103** (1972)
Rustichelli, F., *see* Antonini . . . **104** (1972)
Rustichelli, F., *see* Boeuf . . . **107** (1973)
Ruth, R. D., *see* Hershkowitz . . . **102** (1972)
Ryan, Michael J., *see* Whiteside . . . **109** (1973)
Ryssel, H., *see* Schmid . . . **101** (1972)
Rystephanick, R. G., *see* Peterman . . . **104** (1972)
Rzaev, R. A., *see* Danilchenko . . . **105** (1972)

Sabbah, B., *see* Yarom . . . **104** (1972)
Sabbatini, Vittorio, *see* De Franceschi . . . **109** (1973)
Sacharidis, E. J., Plastic threshold Cherenkov detectors with wavelength shifter and quencher . . . **101** (1972)
Sagu, M. L., *see* Iyer . . . **109** (1973)
Sahasrabudhe, S. G., *see* Chakraborty . . . **103** (1972)
Sajeva, A. and L. Stanchi, Digital pulse generator for nuclear magnetic resonance experiments . . . **106** (1973)
Salama, M. and I. Hamouda, Reduction of the counting losses in a time analyser by the use of an intermediate memory . . . **106** (1973)
Salmi, U., *see* Adir . . . **105** (1972)

omon, M., Discontinuities in histogram scale transformation . . . **106** (1973) 609
tmarsh, M. J., B. M. Preedom, R. D. Edge and C. W. Darden, III, A simple π^+ detector for energies of 10–70 MeV . . . **105** (1972) 311
vatelli, E. R., *see* Baragiola . . . **110** (1973) 503
vatelli, E. R., *see* Baragiola . . . **110** (1973) 507
zman, G. C., C. K. Mitchell and G. G. Ohlsen, Techniques for polarization transfer coefficient determination **109** (1973) 61
hant, R. K., *see* Chakraborty . . . **103** (1972) 411
horski, M., Flash tube hodoscopes for particle density measurements . . . **108** (1973) 285
hoylov, A. V., *see* Danilchenko . . . **105** (1972) 147
mpathkumar, R., *see* Iyer . . . **109** (1973) 453
nada, J., *see* Kondo . . . **102** (1972) 189
nda, T., *see* Murata . . . **108** (1973) 243
nderson, T. R. and D. E. Page, Geometrical aspects of the performance of cosmic ray detector telescopes in non-isotropic particle distributions . . . **104** (1972) 493
nderson, T. R., A three-axis magnetometer with digital readout, suitable for balloon borne apparatus . . . **105** (1972) 371
ndvik, G. E., H. L. Hagedoorn and F. Schutte, Measurements and second-order calculations of the Eindhoven beam transport system . . . **106** (1973) 245
ndweiss, J., *see* Bogert . . . **107** (1973) 337
ndweiss, J., *see* Souder . . . **109** (1973) 237
ngiust, V., *see* Dierckx . . . **105** (1972) 1
ngiust, V., *see* Nimis . . . **109** (1973) 285
njeevaiah, B., *see* Gopal . . . **107** (1973) 221
nnes, F., *see* Alspector . . . **103** (1972) 239
nnes, F., *see* Maglich . . . **103** (1972) 245
nnes, F. and W. C. Harrison, A method for search for nucleon resonances using internal beam during acceleration . . . **105** (1972) 541
rantites, D. G., *see* Hoffman . . . **109** (1973) 3
saki, H., *see* Endo . . . **108** (1973) 193
u Lan Wu, *see* Brenner . . . **103** (1972) 469
uli, F., *see* Charpak . . . **107** (1973) 371
uli, F., *see* Breidenbach . . . **108** (1973) 23
uli, F., *see* Charpak . . . **108** (1973) 413
ulys, A. C., *see* Foley . . . **108** (1973) 33
vin, W., *see* Williams . . . **102** (1972) 201
xon, D. H., *see* Bourquin . . . **108** (1973) 461
yag, G. Jacques, Chambre à étincelles en radiofréquences . . . **108** (1973) 477
haarschmidt, A. und H. Dürner, Nachweisquerschnitt eines bleidotierten Plastzintillators fur γ-Streustrahlung unter Berücksichtigung der Detektorschwelle . . . **105** (1972) 497
hacher, J., *see* Czapek . . . **105** (1972) 609
hadek, J., *see* Illés . . . **107** (1973) 93
haerf, C., *see* Barbini . . . **105** (1972) 515
häfer, W., *see* Dietz . . . **108** (1973) 607
harenguivel, J. H., *see* Brenner . . . **103** (1972) 469
heepmaker, A., *see* Bignami . . . **108** (1973) 257
heuer, W., *see* Achterberg . . . **101** (1972) 555
hlagheck, W., *see* Bukow . . . **110** (1973) 89
hlesinger, J., Fit to experimental data with exponential functions using the Fast Fourier Transform . . . **106** (1973) 503
hlurick, T., *see* Franke . . . **106** (1973) 15
hlurick, T., *see* Helb . . . **108** (1973) 493
hmid, K., H. Müller and H. Ryssel, The simple use of a digital multimeter for beam current integration . . . **101** (1972) 503
hmidt-Ott, W. D., *see* Hansen . . . **106** (1973) 365
hmidt-Ott, Wolf-D., R. L. Mlekodaj and C. A. Bingham, The measurement of the absolute transport efficiency for recoils from heavy ion reactions with He-jet systems . . . **108** (1973) 13
hmied, H., *see* Gass . . . **106** (1973) 109
hmieder, R. W., Large diameter rotating lid vacuum chamber . . . **102** (1972) 313
hmieder, Robert W. and Richard Marrus, Doppler-tuned beam-foil X-ray spectrometer . . . **110** (1973) 459
hmitt, F. M., *see* Gissinger . . . **109** (1973) 157
mitt, H. W., *see* Macklin . . . **102** (1972) 181
hmitz, B. M., K. Farzine and H. von Buttlar, A 4π-β-spectrometer using Si(Li)-detectors . . . **105** (1972) 427
hnatterly, C., *see* Chulick . . . **109** (1973) 171
hneegans, M. A., *see* Basile . . . **101** (1972) 433
hneider, K., *see* Schönfelder . . . **107** (1973) 385
hneider, W. F. W., *see* Pfeffer . . . **107** (1973) 121

Schoenmaekers, W. K., *see* Guislain **101** (1972)

Schoenmaekers, W. K., *see* DeLaet **101** (1972)

Schoenmaekers, W. K., *see* Henck **101** (1972)

Schönfelder, V., A. Hirner and K. Schneider, A telescope for soft gamma ray astronomy **107** (1973)

Schopper, H., *see* Engler **106** (1973)

Schöps, K., *see* Gabriel **103** (1972)

Schrock, Bryce L., *see* Sober **109** (1973)

Schryber, U., *see* Czapek **105** (1972)

Schultz, H. L., *see* Baglin **104** (1972)

Schultz, H. L., *see* Nath **108** (1973)

Schürmann, D., *see* Bukow **110** (1973)

Schutte, F., *see* Sandvik **106** (1973)

Schuvalov, R. S., *see* Bushnin **106** (1973)

Schwaller, P., *see* Renberg **104** (1972)

Schwartz, D. M., *see* Hodges **108** (1973)

Sciré, M., *see* Holder **108** (1973)

Scott, Malcolm C. and M. Ashraf Atta, On the analysis of continuous flow activated systems with non-instantaneous mixing **106** (1973)

Scott, M. L., *see* Coulson **101** (1972)

Scott, R. G., *see* Hansen **104** (1972)

Scott, R. G., *see* Hansen **105** (1972)

Scrimaglio, R., *see* Busso **102** (1972)

Scrimaglio, R., *see* Barbini **105** (1972)

Scully, M. O., *see* Chow **110** (1973)

Seager, P., *see* Ayres **107** (1973)

Sears, V. F., *see* Dolling **106** (1973)

Seeliger, D., *see* Hermsdorf **107** (1973)

Sehgal, M. L., *see* Batra **109** (1973)

Seidman, A., *see* Alexander **105** (1972)

Sellers, B. and F. A. Hanser, Difference between average and most probable energy losses for the Vavilov distribution **104** (1972)

Sellin, I. A., Metastable autoionizing states (*invited talk*) **110** (1973)

Sellin, I. A., *see* Pegg **110** (1973)

Selonke, F., R. Wurth and H. H. Brockmann, On the possibility of measuring BEBC pictures with an HPD . . **103** (1972)

Seltzer, S. M., *see* Berger **104** (1972)

Senftle, F. E., *see* Tanner **102** (1972)

Senftle, F. E., R. M. Moxham and A. B. Tanner, A comparison of radiative capture with decay gamma-ray method in bore hole logging for economic minerals **104** (1972)

Senftle, F. E., R. M. Moxham and A. B. Tanner, A comparison of radiative capture with decay gamma-ray method in borehole logging for economic minerals, Erratum **104** (1972) 485–492 . . . . **109** (1973)

Sens, J. C., *see* Pape **105** (1972)

Septier, A. et M. Boussoukaya, Conditions d'apparition des instabilités de faisceau dans un accélérateur supraconducteur à cavité unique TM_{010} **107** (1973)

Sequeiros, J., F. Fernandez, R. Kaiser and V. Gandia, Photometric charge discrimination of non-relativistic heavy cosmic ions in nuclear emulsion **104** (1972)

Sevcik, V., *see* Watson **105** (1972)

Sever, Y. and P. Eichinger, A simplified procedure for reactivation of Ge(Li)-detectors **101** (1972)

Severgin, Yu. V., *see* Basargin **102** (1972)

Seyfarth, H., A. M. Hassan, B. Hrastnik, P. Göttel and W. Delang, Efficiency determination for some standard type Ge(Li) detectors for gamma-rays in the energy range from 0.04 to 11 MeV **105** (1972)

Shaanan, M. and E. Friedman, A high efficiency fast response detector for 14 MeV neutrons, I. Experimental . . **105** (1972)

Shani, G., A comparison of modulated source and modulated poison neutron oscillators **101** (1972)

Shapiro, S. M. and N. J. Chesser, Characteristics of pyrolytic graphite as an analyzer and higher order filter in neutron scattering experiments **101** (1972)

Sharma, R. C., S. P. Garg and S. Somasundaram, Monte Carlo calculations for thin NaI(Tl) crystals at energies below 100 keV **101** (1972)

Sharp, T. E., *see* Bradbury **110** (1973)

Sharpey-Schafer, J. F., *see* Butler **108** (1973)

Shenoy, G. K. and B. D. Dunlap, Method for the analysis of pure quadrupole spectra in nuclear gamma-ray resonance, Erratum **71** (1969) 285–291 . . . . **107** (1973)

Shepard, C. L., *see* Porter **107** (1973)

Sheppard, D. M., *see* Green **103** (1972)

Sheppard, D. M., *see* Green . . . . **103** (1972) rman, I. S. and M. G. Strauss, Local efficiency variations in coaxial Ge(Li) detectors **103** (1972) 113

rman, N. K., Restoration to transparency of radiation-blackened pyrex **108** (1973) 29

rwood, Jesse E., Floyd D. McDaniel and M. T. McEllistrem, A fast neutron polarimeter with carbon analyzer and pulse-shape discrimination **107** (1973) 317

bata, S., *see* Fischer **101** (1972) 401

bata, T., *see* Okano **104** (1972) 13

gematsu, A., *see* Tomono **102** (1972) 257

gematsu, Akiyo, *see* Suzuki **106** (1973) 539

ntomi, Takakazu, *see* Yamaguchi **106** (1973) 471

raishi, F. and M. Hosoe, Mass distribution of fission fragments from $^{235}\mathrm{U}(n_{\mathrm{th}},f)$ by simultaneous measurements of velocity and energy **107** (1973) 493

raishi, L. M., *see* Cence **108** (1973) 113

pak, E. V., *see* Petrov **101** (1972) 505

pak, E. V., *see* Kiss **107** (1973) 401

ulman, H., *see* Alexander **104** (1972) 597

cre, A., *see* Roche **101** (1972) 231

denius, G., *see* Freeman **107** (1973) 477

gel, R. T., *see* Suzuki **108** (1973) 177

fert, P., *see* Henck **101** (1972) 19

fert, P., *see* Herzer **101** (1972) 31

fert, P., *see* Dorcioman **101** (1972) 91

gfridsson, B., *see* Erman **110** (1973) 471

aev, E., *see* Guzik **104** (1972) 337

ls, R. M., *see* Lennard **110** (1973) 385

verberg, Robert F., *see* Crannell **108** (1973) 445

vester, D. J., *see* Watson **106** (1973) 231

ikin, J., *see* Coupland **106** (1973) 595

mons, J. E., W. B. Broste, T. R. Donoghue, R. C. Haight and J. C. Martin, Sources of polarized neutrons from 2 to 33 MeV using polarization transfer reactions at 0° **106** (1973) 477

nett, G. M., *see* Grannan **103** (1972) 99

nett, George M., *see* Crannell **108** (1973) 445

opoulos, A., *see* Gangas **106** (1973) 409

anoğlu, Oktay, Beam-foil spectroscopy and new atomic structure theory with a survey of results since 1970 (*invited talk*) **110** (1973) 193

gh, J. J., A versatile Mössbauer spectrometer and its application in structural mechanics **101** (1972) 199

din, R., *see* Lindskog **110** (1973) 517

yrme, G., *see* O'Connor **106** (1973) 77

aughter, J., *see* Bogert **107** (1973) 337

etten, G. and P. Knudsen, Preparation of isotope targets by heavy ion sputtering **102** (1972) 459

etten, G., Preparation of targets of alpha-radioactive isotopes **102** (1972) 465

ght, A. G., *see* Hogg **101** (1972) 203

rnov, Eu. V., *see* Derevshchikov **108** (1973) 381

ith, D. L., Fast-neutron flux measurement with a lithium-drifted germanium detector **102** (1972) 193

ith, M. W., G. A. Martin and W. L. Wiese, Systematic trends and atomic oscillator strengths **110** (1973) 219

ith, Peter L., Oscillator strengths of astrophysical interest from lifetime data **110** (1973) 395

ith, Winthrop W., *see* Pegg **110** (1973) 489

ajder, J., *see* Brajnik **103** (1972) 189

bajić, M. V., *see* Veselinović **101** (1972) 535

ber, D. I., M. Arman, D. J. Blasberg, R. P. Haddock, K. C. Leung and B. M. K. Nefkens, Detection of 10- to 100-MeV photons with lead-glass Cherenkov counters **108** (1973) 573

ber, Daniel I., Roy P. Haddock, B. M. K. Nefkens and Bryce L. Schrock, An experimental study of photon-initiated showers in lead between 150 and 450 MeV **109** (1973) 29

bottka, S. E., *see* Lee **104** (1972) 179

bottka, S. E., *see* Lee **109** (1973) 421

hrabi, M. and K. Becker, Fast neutron personnel monitoring by fission fragment registration from ^{237}Np **104** (1972) 409

lomon, Julius and Thomas A. Nunamaker, Pattern Recognition Processor and its application to straight line reconstruction of spark chamber data **107** (1973) 15

lovyanov, V. L., *see* Derevshchikov **108** (1973) 381

masundaram, S., *see* Sharma **101** (1972) 413

mogyi, G. and S. A. Szalay, Track-diameter kinetics in dielectric track detectors **109** (1973) 211

rensen, G., *see* Roberts **110** (1973) 119

rensen, G., *see* Andersen **110** (1973) 143

uder, P. A., J. Sandweiss and A. A. Disco, A "scaled" MWPC with 0.5 mm wire spacing **109** (1973) 237

Sowerby, B. D., A comparison of gamma-ray resonance scattering techniques for borehole analysis . . . 108 (1973)

Sowinski, M., C. Stéphan, T. Czyzewski et J. Tys, Le quartz cristallin détecteur de traces de particules lourdes chargées . . . 105 (1972)

Spanel, L. E., *see* Patrick . . . 107 (1973)

Sparrow, J. H., *see* Dick . . . 104 (1972)

Spaulding, James D., *see* Noakes . . . 109 (1973)

Speidel, K.-H., *see* Doubt . . . 109 (1973)

Sperinde, J., *see* Grove . . . 106 (1973)

Spohr, R., *see* Dietz . . . 105 (1972)

Springer, K., A high-pressure gas target for mesic X-ray measurements . . . 106 (1973)

Sprinzak, A., *see* Kennedy . . . 101 (1972)

Srdoč, Dušan, Dependence of the energy per ion pair on the photon energy below 6 keV in various gases . . . 108 (1973)

Stab, L., *see* Dorcioman . . . 101 (1972)

Stanchi, L., *see* Sajeva . . . 106 (1973)

Starkey, J. R., Automatic selection of flux density in a NMR-controlled dc electromagnet . . . 109 (1973)

Staude, A., *see* Holder . . . 108 (1973)

Staudte, R., *see* Dietz . . . 105 (1972)

Steeger, W. E., *see* Muga . . . 104 (1972)

Stefansson, V., L. Holmberg and B.-G. Pettersson, Electron scattering effects in directional correlations . . . 106 (1973)

Steingraber, O. J., *see* Berlman . . . 106 (1973)

Steingraber, O. J., *see* Berlman . . . 108 (1973)

Steinsvoll, Olav, The resolution function of a hybrid neutron spectrometer . . . 106 (1973)

Stéphan, C., *see* Sowinski . . . 105 (1972)

Stetz, Albert, *see* Fredrickson . . . 107 (1973)

Steuer, M., *see* Niebergall . . . 101 (1972)

Stevenson, M. L., *see* Harris . . . 103 (1972)

Stevenson, M. L., *see* Katsura . . . 105 (1972)

Steyerl, A., A time-of-flight spectrometer for ultracold neutrons . . . 101 (1972)

Steyn, J. J., R. Huang and D. W. Harris, Monte Carlo calculation of clad NaI(Tl) scintillation crystal response to gamma photons . . . 107 (1973)

St. Lorant, S. J., *see* Martin . . . 103 (1972)

Stokoe, J. R., *see* Ayres . . . 107 (1973)

Stolz, H. M., *see* Ehrenberg . . . 105 (1972)

Stone, A. J., Numerical analysis of Mössbauer spectra: Correction for thick absorbers . . . 107 (1973)

Stoner, Jr., J. O., *see* Leavitt . . . 110 (1973)

Stoner, Jr., John O., *see* Masterson . . . 110 (1973)

Stoner, Jr., John O., *see* Roesler . . . 110 (1973)

Stoner, Jr., J. O. and L. J. Radziemski, Jr., Erratum: Spectral linewidth limitations set by ion-foil interactions . . . 110 (1973)

Stoughton, R. W., *see* Macklin . . . 102 (1972)

Strasters, B. A., *see* Vermeer . . . 106 (1973)

Strauch, K., *see* Brenner . . . 103 (1972)

Strauss, M. G., *see* Sherman . . . 103 (1972)

Strechinsky, M., M. Abignoli and J. Baudon, On-line computer control of differential scattering measurements on ion-atom collisions . . . 101 (1972)

Streit, V., *see* Horvath . . . 108 (1973)

Stroud, P. T., *see* Perkins . . . 102 (1972)

Strusny, H., *see* Arlt . . . 102 (1972)

Struss, R. G., *see* Anderl . . . 102 (1972)

Stubbs, F. W., *see* Ayre . . . 102 (1972)

Stubbs, R. J. and J. M. Breare, General properties of the current limited spark chamber . . . 103 (1972)

Stubbs, R. J. and J. M. Breare, Clearing field effects in sealed glass spark chambers . . . 106 (1973)

Stubbs, R. J. and J. M. Breare, Spark chamber efficiency in the presence of very small clearing fields . . . 107 (1973)

Stuck, R., *see* Herzer . . . 101 (1972)

Stupin, D. M., *see* Pape . . . 105 (1972)

Suárez, J. F., *see* Achterberg . . . 101 (1972)

Subtil, J. L., *see* Pinnington . . . 110 (1973)

Subtil, J. L., *see* Berry . . . 110 (1973)

Suen, K. F., *see* McKeown . . . 104 (1972)

Sugihara, T. T., *see* Bowman . . . 103 (1972)

Šulek, P., *see* Zrelov . . . 103 (1972)

Šulek, P., *see* Zrelov . . . 105 (1972)

Šulek, P., *see* Zrelov . . . 107 (1973)

minen, P., Semitoroidal detector configuration for large (well-type) Ge(Li) detectors **101** (1972) 25
anyi, T., *see* Alexander **105** (1972) 525
er, M., *see* Müller **104** (1972) 125
herland, Robert, *see* Anderson **110** (1973) 167
ter, G., *see* Gissinger **109** (1973) 157
walski, J., *see* Dabrowski **103** (1972) 545
uki, A., C. F. Hansen and R. T. Siegel, Acceleration of alpha particles by the Space Radiation Effects Laboratory synchro-cyclotron **108** (1973) 177
uki, Shigeo, Tadao Aoyagi, Eiichi Fujihara, Kyoko Tomono, Mareichi Toyohara, Noboru Tokunaga, Akira Koyano and Akiyo Shigematsu, An improved scintillation probe for continuous counting of expiratory $^{14}CO_2$-gas **106** (1973) 539
ahn, B., *see* Johansson **108** (1973) 225
allow, E. C., *see* Hodges **108** (1973) 551
anenburg, B. N., *see* Bignami **108** (1973) 257
anson, W. P., *see* Fries **107** (1973) 141
kes, D. A. and S. J. Harris, The anomalous straggling of alpha particles in aluminium compared to other absorbers **101** (1972) 423
kes, D. A., *see* Al-Bedri **106** (1973) 241
me, D. B. C. B. and G. I. Crawford, Pulse shape discrimination with NE 211 liquid scintillator **104** (1972) 245
me, D. B. C. B., *see* Crawford **109** (1973) 479
abó, Gy., Paraxial chromatic aberration of asymmetrized quadrupole lenses **106** (1973) 61
abó, J., *see* Várnagy **106** (1973) 301
alay, A., *see* Kiss **107** (1973) 401
alay, S. A., *see* Somogyi **109** (1973) 211
awlowski, M., *see* Baldin **105** (1972) 157
tarkier, J., *see* Harms-Ringdahl **108** (1973) 557

bata, T., R. Ito and S. Okabe, Generalized semiempirical equations for the extrapolated range of electrons **103** (1972) 85
bata, T., *see* Okabe **104** (1972) 109
czanowski, S., Proposal of a method for 14 MeV neutron high intensity pulse generation **104** (1972) 219
gesen, S., *see* Bertl **104** (1972) 205
kacs, J., Corona stabilizer for Van de Graaff accelerators **103** (1972) 587
lbert, Jr., W. L., *see* Wohn **101** (1972) 343
lman, R., *see* Attenberger **107** (1973) 605
main, J. C., *see* Roche **101** (1972) 231
mura, T., *see* Ohya **102** (1972) 121
naka, S., *see* Furuta **104** (1972) 365
nenbaum, William, A position algorithm for a high energy neutron detector using proportional wire chambers **106** (1973) 393
nner, A. B., R. C. Bhargava, F. E. Senftle and J. M. Brinkerhoff Radiative-neutron-capture gamma-ray analysis by a linear combination technique **102** (1972) 61
nner, A. B., *see* Senftle **104** (1972) 485
nner, A. B., *see* Senftle **109** (1973) 411
, S. J., *see* Wang **108** (1973) 253
ras, P., *see* Turcotte **105** (1972) 445
rasenkov, V. G., *see* Khakimov **103** (1972) 135
rlé, J. C. and H. Verweij, A circuit for processing signals from multiwire proportional chambers constructed in thick film hybrid form **102** (1972) 131
saka, Kanji, Standard spectrum method for the analysis of gamma-ray spectra from semiconductor detectors **109** (1973) 547
tarczuk, J. R., *see* Moyer **102** (1972) 141
uth, T., *see* Hadinger **102** (1972) 157
uth, T., Sur les équations décrivant un plasma quasi-neutre d'ions lourds confiné dans un champ magnétique **107** (1973) 293
utz, M. F., High order aberrations for ion orbits in static magnetic fields **104** (1972) 505
ylor, B. G., *see* Arens **108** (1973) 147
ylor, D., *see* Rao **103** (1972) 175
ylor, H. W., A comment on γ-γ directional correlation measurements in even-even nuclei **104** (1972) 401
oh, W., CUTIPIE – A computer program to analyze gamma-ray spectra **109** (1973) 509
pel, J. W., Direction correlation coefficients in compound nuclear reactions **103** (1972) 171
rrani, M., *see* Rossitto **103** (1972) 77
rrani, M., *see* Dierckx **105** (1972) 1
rrani, M., *see* Nimis **109** (1973) 285
rrani, S., *see* Rossitto **103** (1972) 77
rrani, S., *see* Nimis **109** (1973) 285
ain, E., Target-holder and vacuum chamber for cyclotron isotope production **108** (1973) 571

Thies, H. H., B. W. Thomas, F. Lee, R. Koch and D. M. Crawford, Conversion of bremsstrahlung photo neutron mean energies to monochromatic photo neutron mean energies **102** (1972)

Thies, H. H., *see* Crawford **106** (1973)

Thies, H. H., D. M. Crawford, K. Böttcher, R. K. Gupta, R. Koch and B. W. Thomas, Multiparameter photon difference analysis **106** (1973)

Thies, H. H., *see* Dahmen **107** (1973)

Thies, H. H., *see* Crawford **109** (1973)

Thiessen, H. A., *see* Lee **104** (1972)

Thiessen, H. A., *see* Lee **109** (1973)

Thimmel, H. M., Horizontal motion and phase dilatation of an externally injected ion beam **107** (1973)

Thomas, B. W., *see* Thies **102** (1972)

Thomas, B. W., *see* Crawford **106** (1973)

Thomas, B. W., *see* Thies **106** (1973)

Thomas, G., *see* Prunier **109** (1973)

Thomas, G. E., *see* Loper **105** (1972)

Thomas, K., *see* Vogler **101** (1972)

Thomas, K., *see* Hofmann **101** (1972)

Thomas, R. H., Radioactivity in earth induced by high energy electrons **102** (1972)

Thomas, R. N. and R. V. Thomas, A device for maintaining a constant detector counting rate from a decaying radioactive source **104** (1972)

Thomas, R. V., *see* Thomas **104** (1972)

Thompson, D. T. and G. E. Tripard, Kinematic separations for three body final state reactions **102** (1972)

Thompson, J. C., *see* Mckeown **104** (1972)

Thompson, J. C., *see* Greeniaus **104** (1972)

Thompson, M. G., *see* Ayre **102** (1972)

Thompson, M. G., *see* Ayre **102** (1972)

Thompson, M. G. and S. C. Wells, Mars III: The storage and analysis of the spectrograph data **102** (1972)

Thompson, M. G., *see* Ayre **103** (1972)

Thorngate, J. H. and P. T. Perdue, A stable pulsed light source using low-cost light-emitting diodes **105** (1972)

Thornton, S. T., R. H. McKnight and R. C. Ritter, Characteristics of stripping neon ions with carbon foils **101** (1972)

Tielert, R., *see* Bukow **110** (1973)

Tiitta, A. and E. Tunkelo, Correction for multiple scattering in cold neutron experiments **103** (1972)

Tillmann, K., *see* Wittmann **110** (1973)

Tillmann, K., *see* Andrä **110** (1973)

Tirler., R, *see* Breidenbach **108** (1973)

Tischhauser, T., *see* Ayres **107** (1973)

Tittel, K., *see* Holder **108** (1973)

Tlachala, V., *see* Basiladze **106** (1973)

Tobias, M., *see* Macklin **102** (1972)

Toh, H. K., A. R. Ware and R. E. Wetton, A new radio-tracer technique for the measurement of self-diffusion coefficients of organic liquids in polymers **103** (1972)

Tokunaga, N., *see* Tomono **102** (1972)

Tokunaga, Noboru, *see* Suzuki **106** (1973)

Tombrello, T. A., *see* Leich **108** (1973)

Tomkiewicz, Y., *see* Garwin **107** (1973)

Tomono, K., N. Tokunaga, A. Koyano, M. Toyohara and A. Shigematsu, Detailed description of a simplified radio-liquid chromatograph **102** (1972)

Tomono, Kyoko, *see* Suzuki **106** (1973)

Toner, W. T., *see* Lakin **103** (1972)

Toner, W. T., *see* Martin **103** (1972)

Toropov, A. S., *see* Prudnikov **101** (1972)

Toyohara, M., *see* Tomono **102** (1972)

Toyohara, Mareichi, *see* Suzuki **106** (1973)

Tran, D. T., Erratum **98** (1972) 285–299 **102** (1972)

Trimble, S., *see* Chapman **106** (1973)

Trines, D., *see* Garwin **107** (1973)

Tripard, G. E., *see* Thompson **102** (1972)

Tronc, D., Electron injectors for linear accelerators **105** (1972)

Trueblood, J. H., *see* Avignone, III **107** (1973)

Tsai, B., *see* Autones **103** (1972)

Tseng, P. K., *see* Hsu **106** (1973)

Tserruya, I., *see* Rosner **105** (1972)

Tsumori, K., *see* Okabe **104** (1972)

ganov, E. N., *see* Guzik **104** (1972) 337
nkelo, E., *see* Titta **103** (1972) 575
plin, T. A., *see* Glover **102** (1972) 443
rck, B., Evaluation précise des 3 composantes d'un champ magnétique à partir des tensions prélevées sur 3 sondes de Hall **105** (1972) 97
rcotte, A. and P. Taras, Analysis of gamma-ray linear polarization spectra obtained with a NaI Compton polarimeter **105** (1972) 445
ros, A. and L. Wieluński Analysis of surface layers by elastic backscattering **104** (1972) 117
rrin, A., *see* Letardi **103** (1972) 485
rrin, A., Stability limits of the phase oscillations in a microtron **104** (1972) 169
rula, M., *see* Guzik **104** (1972) 337
vin, P. J., Experimental measurements of the relative peak efficiencies of various Compton polarimeters **103** (1972) 613
vin, P. J. Inherent ambiguities in gamma ray angular correlation experiments **106** (1973) 481
vin, P. J., *see* Butler **108** (1973) 497
rroff, H., *see* Arlt **102** (1972) 253
s, J., *see* Sowinski **105** (1972) 317

o, F., *see* Borghini **105** (1972) 215
hara, S., *see* Okano **104** (1972) 13
bricht, J., G. Clausnitzer and G. Graw, High density windowless gas target **102** (1972) 93
akantha, N., *see* Chikkur **107** (1973) 201
barger, C. J., *see* Feldl **103** (1972) 341
derwood, B. Y., *see* Wormald **107** (1973) 233
us, I., *see* Hansen **106** (1973) 365
ttenhove, J. and J. Demuynck, A universal digital routing unit **109** (1973) 195

ger, Z., *see* Birk **108** (1973) 611
kselj, M., *see* Kregar **109** (1973) 109
lenti, G., *see* Gabriele **108** (1973) 431
lentine, K., *see* Kaplan **106** (1973) 397
lette, C., *see* Drukier **105** (1972) 285
lkonen, M. and J. Kantele, The role of target geometry in 14 MeV neutron capture cross-section measurements **103** (1972) 549
llee, R. L., *see* Khan **103** (1972) 361
lot, P., The response of coaxial detectors to anisotropic fluxes **108** (1973) 81
n Audenhove, J. and J. Joyeux, Sample preparation by metallurgical methods **102** (1972) 409
n Audenhove, J., *see* Joyeux **102** (1972) 435
n der Eijk, W. and R. Vaninbroukx, Sampling and dilution problems in radioactivity measurements **102** (1972) 581
nderleeden, J. C., *see* Lipson **104** (1972) 525
n der Raay, H. B., *see* Bentley **104** (1972) 299
n Harlingen, D., *see* Alspector **103** (1972) 239
n Heerden, I. J., *see* Elbakr **105** (1972) 519
ninbroukx, R., *see* Van der Eijk **102** (1972) 581
n Nice, H. L., *see* Frame **104** (1972) 215
nnini, G., *see* Forte **108** (1973) 525
n Patter, D. M., *see* Hoffman **109** (1973) 3
n Rossum, L., *see* Autones **103** (1972) 211
n Zwol, N. A., *see* Vermeer **106** (1973) 115
rnagy, M., J. Szabó, S. Juhász and J. Csikai, Determination of track parameters by diffraction method using laser light **106** (1973) 301
rney, R. N., *see* Bradbury **110** (1973) 75
gni, G., *see* Bellini **107** (1973) 85
rbruggen, R. and W. R. McMurray, A 90 cm scattering chamber with novel design features **104** (1972) 197
rdingh, V., The preparation of powder samples **102** (1972) 431
rdingh, V., The preparation of layers by electrospraying and electrophoresis **102** (1972) 497
rghese, K., R. P. Gardner and R. M. Felder, Solid angle subtended by a circular cylinder **101** (1972) 391
rheul, H., *see* Roodbergen **105** (1972) 551
rheyen, F., *see* Moret **102** (1972) 575
rma, J. K. D., V. Raju and M. D. Aggarwal, Measurement of magnetic field; A bibliographical review **104** (1972) 545
rmeer, A., N. A. van Zwol and B. A. Strasters, A negative helium ion source with potassium vapour charge exchange **106** (1973) 115
rweij, H., *see* Tarlé **102** (1972) 131

Veselinović, D. I., D. Z. Danilović and M. V. Šobajić, The source-follower linearization of a diode pump integrator . . . **101** (1972)
Vialle, M., *see* Roche . . . **103** (1972)
Victor, G. A. and C. Laughlin, Model potential calculations of Be I and Mg I oscillator strengths . . . **110** (1973)
Viggars, D. A., *see* Butler . . . **108** (1973)
Villa, F., *see* Fries . . . **107** (1973)
Villari, A., *see* Holder . . . **108** (1973)
Vitale, A., *see* Forte . . . **108** (1973)
Vivargent, M., *see* Niebergall . . . **101** (1972)
Vogel, P., Dipole polarizabilities from the *nf* term values . . . **110** (1973)
Voges, W. H., *see* Bignami . . . **108** (1973)
Vogl, G., *see* Rosner . . . **105** (1972)
Vogl, W., *see* Rosner . . . **105** (1972)
Vogler, F., A. Hofmann, G. Philipp and K. Thomas, Derivation of fast time marking signals from silicon surface barrier detectors . . . **101** (1972)
Vogler, F., *see* Hofmann . . . **101** (1972)
Voisin, G., *see* Chabert . . . **107** (1973)
Voit, H., *see* Helb . . . **108** (1973)
Von Buttlar, H., *see* Schmitz . . . **105** (1972)
Von Charzewski, C., *see* Bass . . . **104** (1972)
Von Egidy, T., *see* Denk . . . **102** (1972)
Voronov, V. I., *see* Danilchenko . . . **105** (1972)
Vukanović, R. B., *see* Aničin . . . **103** (1972)

Waddell, C., *see* Eisberg . . . **101** (1972)
Waligórski, Michael P. R., Absolute field distribution in gaseous proportional counters of box-type geometry . . . **109** (1973)
Walker, D. M., *see* Fishman . . . **107** (1973)
Walker, J. K., *see* Brenner . . . **103** (1972)
Walther, V., *see* Ehrenberg . . . **105** (1972)
Walther, V. H., *see* Wendling . . . **105** (1972)
Wang, J. B., S. Y. Chuang, S. J. Tao and A. Ogata, A simple time-to-amplitude converter and a quadrupole coincidence unit based on integrated-circuits for positron annihilation studies . . . **108** (1973)
Wannberg, B., *see* Ekström . . . **103** (1972)
Wannberg, B., *see* Olsmats . . . **103** (1972)
Wannberg, B., An electrostatic mirror spectrometer with coaxial electrodes for multi-detector operation . . . **107** (1973)
Wannberg, B., *see* Olsmats . . . **107** (1973)
Wäppling, R. and K. Pernestål, On the use of accelerometers in Mössbauer spectroscopy . . . **109** (1973)
Ware, A. R., *see* Toh . . . **103** (1972)
Warnant, H., *see* Claessens . . . **101** (1972)
Warner, D. J., *see* Evans . . . **104** (1972)
Wartski, L., J. Marcou, A. Papiernik, S. Roland, M. Bolore et G. Filippi, Rayonnement de transition dans le domaine optique, produit par des électrons de 40-60 MeV à la traversée de lames métalliques . . . **106** (1973)
Watanabe, K., *see* Fukui . . . **105** (1972)
Waterman, F. M., *see* Madey . . . **104** (1972)
Waterman, Frank M., *see* Madey . . . **106** (1973)
Waters, S. L., *see* Watson . . . **106** (1973)
Watson, I. A., S. L. Waters, D. K. Bewley and D. J. Silvester, A method for the measurement of the cross-sections for the production of radioisotopes by charged particles from a cyclotron . . . **106** (1973)
Watson, J. M., V. Sevcik and J. Pfeifer, A foam-insulated liquid hydrogen target for streamer chambers . . . **105** (1972)
Watson, J. W., Comments on intensity estimation for a neutron beam for biological and medical applications . . . **103** (1972)
Wearn, D., *see* Brenner . . . **103** (1972)
Weber, G., *see* Huez . . . **105** (1972)
Weber, H. W., *see* Feigelbinder . . . **105** (1972)
Weckermann, B., *see* Meister . . . **108** (1973)
Wehring, B. W., *see* Lerche . . . **101** (1972)
Wehring, B. W., *see* Lerche . . . **101** (1972)
Wehring, B. W., *see* Lerche . . . **107** (1973)
Wehring, B. W., *see* Bohn . . . **109** (1973)
Weickelt, G., *see* Rösch . . . **101** (1972)
Weinert, M., Temperature coefficients of a NE 213 neutron spectrometer . . . **108** (1973)
Wells, S. C., *see* Ayre . . . **102** (1972)
Wells, S. C., *see* Ayre . . . **102** (1972)
Wells, S. C., *see* Thompson . . . **102** (1972)

lsh, R. E., *see* Miller . . . **104** (1972) 11
nder, S. A., *see* Hershkowitz . . . **102** (1972) 205
ndling, R. D., V. H. Walther and H. Averdung, A liquid gas target system for medium energy electron scattering . . . **105** (1972) 125
nninger, H., *see* Ayres . . . **107** (1973) 131
nninger, H., *see* Coleman . . . **107** (1973) 399
nzel, W. A., *see* McReynolds . . . **103** (1972) 397
st, P., Einfluss der Absorberdicke auf die Photoelektronen–Konversionselektronen Interferenz beim Mössbauereffekt . . . **101** (1972) 243
stbrook, R. D., Hole traps in germanium crystals . . . **108** (1973) 335
stphal, G. P., On the resolution of a position sensitive $^{10}BF_3$ proportional counter . . . **106** (1973) 279
tton, R. E., *see* Toh . . . **103** (1972) 93
ymann, J. P., *see* Pfleger . . . **106** (1973) 135
ymuth, P., *see* Borghini . . . **105** (1972) 215
haling, W., *see* Lennard . . . **110** (1973) 385
halley, M. R., *see* Ayre . . . **102** (1972) 19
halley, M. R., *see* Ayre . . . **102** (1972) 29
halley, M. R., *see* Ayre . . . **103** (1972) 49
hite, D. C. S. and B. C. Robertson, Nuclear resonance fluorescence with a 5 Ci Pu-Be radioactive source . . . **105** (1972) 29
hite, F. A., *see* Wilson Whitehead . . . **103** (1972) 437
hite, J. R., *see* Hoffmann . . . **109** (1973) 399
hite, R. S., *see* Grannan . . . **103** (1972) 99
hiteside, Haven, Carol Jo Crannell, Hall Crannell, Jonathan F. Ormes, Michael J. Ryan and W. Vernon Jones, Energy calibration of a cosmic ray ionization spectrometer . . . **109** (1973) 375
hittaker, J. K., *see* Dick . . . **104** (1972) 131
hitten, W. B., *see* Bronk . . . **106** (1973) 319
hitton, J. L., *see* Bøttiger . . . **109** (1973) 579
ckens, F. J., *see* Bentley . . . **104** (1972) 299
ding, Kenneth G., Coronal identifications below 400 Å (*invited talk*) . . . **110** (1973) 343
edenbeck, M. L., *see* Diethrich . . . **104** (1972) 455
edenbeck, M. L., *see* Gardulski . . . **105** (1972) 169
edenbeck, M. L., *see* Chow . . . **109** (1973) 597
edner, C. A., M. Goldschmitt, D. Rieck, H. A. Enge and S. B. Kowalski, Performance of a QDDD spectrograph . . . **105** (1972) 205
eluński, L., *see* Turos . . . **104** (1972) 117
en, K., Y. Fares and R. D. MacFarlane, Application of the helium-jet technique for fission fragment transport from spontaneous fission sources . . . **103** (1972) 181
ese, W. L., *see* Smith . . . **110** (1973) 219
esehahn, W. J., *see* Dautet . . . **107** (1973) 49
esehahn, W. J., H. Dautet, J. M. D'Auria and B. C. Pate, The application of a gas jet recoil transport system to the products of fast neutron reactions . . . **109** (1973) 613
esner, W., *see* Flothmann . . . **102** (1972) 237
esner, W., *see* Gils . . . **105** (1972) 179
ggins, P. F., *see* Duffey . . . **105** (1972) 23
lcox, David, *see* Anderson . . . **110** (1973) 167
lenzick, R. M., Neutron irradiation monitor for use with Ge(Li) detectors . . . **103** (1972) 429
ley, J., *see* Kennedy . . . **101** (1972) 471
lkinson, D. H. and R. E. Marrs, Finite nuclear size effects in allowed β-decay . . . **105** (1972) 505
llen, E. H., *see* Foley . . . **108** (1973) 33
lliams, H. H., A. Kilert and D. W. G. S. Leith, A large-aperture Cherenkov hodoscope for identification of multi-particle states . . . **105** (1972) 483
lliams, M. E., T. Kruse, D. Bayer, N. Williams and W. Savin, Particle identification for a position sensitive proportional counter . . . **102** (1972) 201
lliams, N., *see* Williams . . . **102** (1972) 201
lliams, P. R., *see* Ayres . . . **107** (1973) 131
lliams, P. R., *see* Coleman . . . **107** (1973) 399
llig, W. R., Large bandgap mercury and lead compounds for nuclear particle detection . . . **101** (1972) 23
llis, W., *see* Bogert . . . **107** (1973) 337
llitts, T. R., *see* Niebergall . . . **101** (1972) 321
lls, R. D., *see* Bignami . . . **108** (1973) 257
lson, B. G., *see* Francey . . . **107** (1973) 589
lson Whitehead, T. and F. A. White, Design considerations for the RPI three-stage isotope separator . . . **103** (1972) 437
ndels, G., *see* Bartošek . . . **103** (1972) 43

Winter, K., *see* Niebergall **101** (1972)
Wittmann, W., *see* Andrä **110** (1973)
Wittmann, W., K. Tillmann and H. J. Andrä, Hyperfine structure measurements by zero-field quantum beats after beam-foil excitation **110** (1973)
Wittmann, W., *see* Andrä **110** (1973)
Wogman, N. A. and R. L. Brodzinski, The development and application of a beta-gamma-gamma multidimensional spectrometer **109** (1973)
Wohlfahrt, H. D., *see* Ehrenberg **105** (1972)
Wohn, F. K., J. R. Clifford, G. H. Carlson and W. L. Talbert, Jr., A plastic scintillation detector for beta-ray spectrum measurements **101** (1972)
Wolf, E., *see* Alexander **105** (1972)
Wöfli, W., *see* Müller **104** (1972)
Wollnik, H., T. Matsuo and H. Matsuda, The electrostatic potential in a toroidal condensor **102** (1972)
Wollnik, H., *see* Matsuda **103** (1972)
Wollnik, H., Multipole elements for the correction of image aberrations **103** (1972)
Wollnik, H., *see* Matsuo **103** (1972)
Wong, M., *see* Brenner **103** (1972)
Woodburn, E. H., M. Barrette, J. L. Foster, Jr. and G. Lamoureux, A rotating target holder for low melting point nuclear targets **109** (1973)
Woodruff, R., *see* Bukow **110** (1973)
Woods, M. J., Humidity effects in the 138A ionization chamber **109** (1973)
Woollam, W. H., *see* Francey **107** (1973)
Wormald, M. R., B. Y. Underwood and K. W. Allen, The preparation of tantalum nitride targets by reactive sputtering **107** (1973)
Wright, I. F., *see* Branford **106** (1973)
Wright, S. C., *see* Burns **106** (1973)
Wu, C.-P., *see* Baglin **104** (1972)
Wurth, R., *see* Selonke **103** (1972)
Wyman, M. E., *see* Lerche **101** (1972)
Wyman, M. E., *see* Lerche **101** (1972)
Wyman, M. E., *see* Lerche **107** (1973)
Wynroe, Anthony J., *see* Jones **109** (1973)

Yagi, H., *see* Gotoh **101** (1972)
Yagi, Hideyuki, *see* Gotoh **109** (1973)
Yagi, K., *see* Ōkuma **102** (1972)
Yair, R., *see* Yarom **104** (1972)
Yamaguchi, Chiri, Takakazu Shintomi and Masayoshi Masuda, Accuracy of the photon-difference method in the giant dipole resonance region **106** (1973)
Yamamoto, A., *see* Fukui **105** (1972)
Yamamoto, K., *see* Koike **103** (1972)
Yamashita, S., *see* Kobayashi **101** (1972)
Yamashita, S., *see* Kobayashi **103** (1972)
Yarom, A., R. Yair and B. Sabbah, Stability improvement of ionization chambers **104** (1972)
Yarom, A., D. Ben-Zeev and D. Inbar, Decay constant of CsI(Na) scintillators **106** (1973)
Yavor, S. Ya., *see* Petrov **101** (1972)
Yellin, J., *see* Hadeishi **110** (1973)
Yester, M. V., *see* Anderl **102** (1972)
Yin Yin Hla, Chit Khaing, May Su and A. M. Ghose, An analytical formula K-shell photoeffect for intermediate and high Z atoms **104** (1972)
Yodh, G. B., *see* Harris **107** (1973)
Yoneyama, Toshikazu, *see* Michikawa **106** (1973)
Yoshiki, H., Background caused by tritium disintegration in deuterium chambers **104** (1972)
Yoshizawa, Yasukazu, *see* Inoue **108** (1973)
Young, E. C. M., *see* Ayre **103** (1972)
Yount, D. E., *see* Harris **103** (1972)
Yount, D. E., *see* Katsura **105** (1972)
Yount, D., *see* Fries **107** (1973)
Yount, D. E., *see* Cence **108** (1973)
Yuasa, Toshiko, *see* Nakamura **108** (1973)
Yung, Y. L., *see* Lundeen **110** (1973)
Yvert, M., *see* Niebergall **101** (1972)

ffarano, D. J., *see* Anderl . . . **102** (1972) 101
jc, W. A., *see* Lennard . . . **110** (1973) 385
nevsky, Yu. V., *see* Guzik . . . **104** (1972) 337
cchin, G., An LSI most-memory in digital data of bubble chamber photograms transmission system . . . **101** (1972) 375
cchin, G., *see* Malaroda . . . **105** (1972) 597
chichi, A., *see* Basile . . . **101** (1972) 433
chichi, A., *see* Gabriele . . . **108** (1973) 431
eger, A., *see* Ahrens . . . **108** (1973) 517
egler, B., *see* Ahrens . . . **108** (1973) 517
eher, K. W., A principle for efficient production of short bursts of ions with small energy spread out of a finite emittance beam . . . **105** (1972) 221
ffermayer, G., *see* Gass . . . **106** (1973) 109
sman, M. S., *see* Harvey . . . **104** (1972) 21
elov, V. P., M. A. Musin, P. Pavlovič, P. Šulek and R. Janik, Monochromatic method for measuring the 665 MeV mean proton energy by using Vavilov–Cherenkov radiation . . . **103** (1972) 261
elov, V. P., P. Pavlovič and P. Šulek, Apochromatic method for measuring the mean 675 MeV proton energy by using Vavilov–Cherenkov radiation . . . **105** (1972) 109
elov, V. P., P. Pavlovič and P. Šulek, Achromatic method for measuring the 654 MeV mean proton energy by using Vavilov–Cherenkov radiation . . . **107** (1973) 279
mwalt, L. R., *see* Ong . . . **105** (1972) 383
ada, M., *see* Horvath . . . **108** (1973) 357

SUBJECT INDEX

ccelerators and Reactors

utron kinetics optimization in the zero reactivity method applied graphite-D_2O reactor, V. GIACOBBI and F. RUSTICHELLI . . . **103** (1972) 581
rona stabilizer for Van de Graaff accelerators, J. TAKACS . . . **103** (1972) 587
essungen der Landungsverteilung im externen Teilchenstrahl des Hamburger Isochron-Zyklotrons, H.-J. KELLERMAN, H. O. KLAGES, H. KRAUSE, R. LANGKAU und K.-H. LAU . . . **104** (1972) 1
ability limits of the phase oscillations in a microtron, A. TURRIN . . . **104** (1972) 169
mputer simulation of charged particle beams, D. C. CAREY . . . **104** (1972) 173
oposal of a method for 14 MeV neutron high intensity pulse generation (*Letter to the Editor*), S. TACZANOWSKI **104** (1972) 218
oton beam positioning system with computer control, D. C. PETERSON . . . **104** (1972) 451
esign of the extraction system for the AEG-Compact Cyclotron, H. LIESEM . . . **105** (1972) 329
ectron injectors for linear accelerators, D. TRONC . . . **105** (1972) 335
kV ion beam accelerator for erosion studies (*Letter to the Editor*), R. E. HURLEY and P. N. BAKER . . . **105** (1972) 387
lsed beam method at high current accelerators (*Letter to the Editor*), G. CZAPEK, B. HAHN, A. MARKEES, J. SCHACHER and U. SCHRYBER . . . **105** (1972) 609
zachstan variable energy isochronous cyclotron (*Letter to the Editor*), A. A. ARZUMANOV and L. M. NEMENOV **106** (1973) 201
ry high field synchrotron magnets with iron yokes, J. H. COUPLAND, J. SIMKIN and T. C. RANDLE . . . **106** (1973) 595
orizontal motion and phase dilatation of an externally injected ion beam, H. M. THIMMEL . . . **107** (1973) 381
celeration of alpha particles by the Space Radiation Effects Laboratory synchro-cyclotron, A. SUZUKI, C. F. HANSEN and R. T. SIEGEL . . . **108** (1973) 177
umerical calculation of the electric fields around the hoop structure of Van de Graaff accelerators, D. A. EASTHAM . . . **108** (1973) 593
ssibility of using a source of the Bernas–Nier type for negative ion production (*Letter to the Editor*), J. DENIMAL and C. RICAUD . . . **109** (1973) 409
osolute measurement of accelerator beam energy by the time-of-flight technique, H.-B. MAK, H. B. JENSEN and C. A. BARNES . . . **109** (1973) 529
timum thickness of tritium–titanium targets for the 150 keV deuterons, S. M. KABIR . . . **109** (1973) 533
provements to a method of externally pulsing an accelerator (*Letter to the Editor*), A. GIL RAMOS and P. N. COOPER **109** (1973) 617

ounters, Chambers and Detectors

OCEEDINGS OF THE SECOND SYMPOSIUM ON SEMICONDUCTOR DETECTORS FOR NUCLEAR RADIATION

Material properties
the behaviour of lithium in silicon, H. J. GUISLAIN, W. K. SCHOENMAEKERS and L. H. DELAET . . . **101** (1972) 1
ality control of p-type and intrinsic Ge monocrystals for γ-radiation detectors, L. H. DELAET, W. K. SCHOENMAEKERS, H. J. GUISLAIN and M. MEEUS . . . **101** (1972) 11
ap parameters of Ag, Co, Cr and Te impurities in Ge(Li) detectors, R. HENCK, P. SIFFERT, W. K. SCHOENMAEKERS and L. H. DELAET . . . **101** (1972) 19
rge bandgap mercury and lead compounds for nuclear particle detection, W. R. WILLIG . . . **101** (1972) 23

Fabrication techniques
mitoroidal detector configuration for large (well-type) Ge(Li) detectors, P. SUOMINEN . . . **101** (1972) 25
implanted high-purity germanium detectors, H. HERZER, S. KALBITZER, J. P. PONPON, R. STUCK and P. SIFFERT **101** (1972) 31
om-temperature GaAs gamma-detectors, K. HESSE, W. GRAMANN and D. HÖPPNER . . . **101** (1972) 39
w-noise oxide passivated p^+n silicon detectors, G. KEIL and E. LINDNER . . . **101** (1972) 43
photodiodes as dosimeters for fast neutrons, E. RÖSCH, G. WEICKELT and D. BROSTRÖM . . . **101** (1972) 47
tissue equivalent semiconductor for in-vivo dosimetry, G. JACOB, G. FORCINAL and J. MEULEMAN . . . **101** (1972) 51

Detector properties
ad layers on semiconductor detectors for charged particle spectroscopy, D. PROTIĆ and G. RIEPE . . . **101** (1972) 55
(Li) detectors with highly compensated intrinsic regions, H. GRAHMANN and S. KALBITZER . . . **101** (1972) 61
simplified procedure for reactivation of Ge(Li)-detectors, Y. SEVER and P. EICHINGER . . . **101** (1972) 67
arge collection from the entrance window of diffused detectors and its contribution to energy resolution, G. BERG, A. HEUBERGER and H. BERNT . . . **101** (1972) 73

IV. Particle spectroscopy

Semiconductor detectors for charged particle spectroscopy in the 80 MeV range, G. Riepe and D. Protić **101** (1972)

Semiconductor detector telescopes for measuring proton energies up to 300 MeV – Problems and solutions, R. Eisberg, D.Inhgam, M. Makino, R. Cole and C. Waddell **101** (1972)

Detection of high energy protons by Ge(Li) counters, D. Dorcioman, R. Bertini, M. Hage-Ali, P. Siffert and L. Stab **101** (1972)

Radiation damage effects from 2 MeV protons in silicon surface barrier detectors, R. Grube, E. Fretwurst and G. Lindström **101** (1972)

Use of a semiconductor telescope for the detection of light recoiling nuclei in coherent elastic scattering experiments at high energy, M. Brossard, J. Combe, J. Fain, J. Gardes, L. Meritet, M. Querrou, D. Riss, B. Chambon, D. Drain, N. Madjar and C. Pastor **101** (1972)

V. Measuring techniques

Semiconductor X-ray spectrometers, A. H. F. Muggleton **101** (1972)

Some aspects of X-ray fluorescence spectrometers for trace element analysis, D. A. Landis, F. S. Goulding and B. V. Jarrett **101** (1972)

Use of a Ge(Li) total absorption spectrometer in (n,$x\gamma$) measurements, V. J. Orphan, C. G. Hoot and J. John . **101** (1972)

On the use of single escape peak in Ge(Li) spectoscopy, I. K. MacKenzie and J. L. Campbell **101** (1972)

Efficiency calibration of semiconductor X-ray detectors in the energy range 3 – 200 keV, J. L. Campbell and L. A. McNelles **101** (1972)

Decay measurements of single gamma rays selected by a digital dual window, P. Fettweis and E. Mies **101** (1972)

Derivation of fast time marking signals from silicon surface detectors, F. Vogler, A. Hofmann, G. Philipp and K. Thomas **101** (1972)

Pulse shape analysis in coaxial Ge(Li)-detectors, D. Belusa, E. Fretwurst, F. Jaber and G. Lindström **101** (1972)

Light response and pulse shape discrimination properties for NE 232, E. Bovet, P. Boschung and J. Rossel . . **101** (1972)

A system of cylindrical wire spark chambers, F. Niebergall, M. Regler, K. Winter, J.-J. Aubert, X. de Bouard, V. Lepeltier, L. Massonnet, H. Pessard, M. Vivargent, T. R. Willitts, M. Yvert, W. Bartl and M. Steuer **101** (1972)

Plastic threshold Cherenkov detectors with wavelength shifter and quencher, E. J. Sacharidis **101** (1972)

A plastic scintillation detector for beta-ray spectrum measurements, F. K. Wohn, J. R. Clifford, G. H. Carlson and W. L. Talbert, Jr. **101** (1972)

A simple multicounter system for silicon detectors, K. Kilian, J. Niewisch and D. Fick **101** (1972)

On the response of impurity activated alkali-halide scintillators, M. Ladu, M. Pelliccioni and M. Roccella . . **101** (1972)

The detection efficiency and the response function of semiconductor proton recoil counters with axial symmetry to a point neutron source (*Letter to the Editor*), H. Gotoh and H. Yagi **101** (1972)

A spark chamber with improved time resolution (*Letter to the Editor*), J. Moromisato and D. Garelick **101** (1972)

The hybrid chamber: A proportional chamber with gated spark readout (*Letter to the Editor*), J. Fischer and S. Shibata **101** (1972)

A reaction chamber for isomeric fission measurements, E. J. Feldl and R. B. Leachman **101** (1972)

Very low background proportional counter for tritium dating (*Letter to the Editor*), P. Povinec **101** (1972)

A spark chamber with low mass frame, L. Draper **102** (1972)

Neutron multiplicity counter, R. L. Macklin, F. M. Glass, J. Halperin, R. T. Roseberry, H. W. Schmitt, R. W. Stoughton and M. Tobias **102** (1972)

The gas amplification factor in xenon filled proportional counters, R. W. Hendricks **102** (1972)

Large diameter rotating lid vacuum chamber, R. W. Schmieder **102** (1972)

Inexpensive large area counters using multi-wire proportional chambers, R. Lanza and N. Hopkins **102** (1972)

Improved resolution for low energies with gas proportional scintillation chambers, A. J. P. L. Policarpo, M. A. F. Alves, M. C. M. Dos Santos and M. J. T. Carvalho **102** (1972)

Neutron produced carbon recoil scintillations in Naton 136 plastic scintillator, C. A. Burke and H. Lefevre . . **102** (1972)

A note on the detection of heavy ions by over-biased totally depleted thin surface barrier detectors (*Letter to the Editor*), J. B. A. England **102** (1972)

Local efficiency variations in coaxial Ge(Li) detectors, I. S. Sherman and M. G. Strauss **103** (1972)

Some properties of multiwire chambers filled with argon-ethylbromide mixture, L. Cohen, C. Grunberg and J. le Devehat **103** (1972)

Windowless proportional counter for soft X-rays (*Letter to the Editor*), T. Kifune and N. Kawashima **103** (1972)

A ΔE gas ionization chamber for fission fragments (*Letter to the Editor*), N. N. Ajitanand, S. K. Kataria, S. S. Kapoor and P. N. Rama Rao **103** (1972)

Proportional counters for the localisation of ionising radiation, J. Hough and R. W. P. Drever **103** (1972)

The determination of intrinsic gamma-ray detection efficiencies for cylindrical Geiger-Müller tubes by Monte Carlo methods, W. L. Dunn and R. P. Gardner **103** (1972)

General properties of the current limited spark chamber, R. J. Stubbs and J. M. Breare **103** (1972)

Neutron irradiation monitor for use with Ge(Li) detectors (*Letter to the Editor*), R. M. Wilenzick **103** (1972)

rrection of light attenuation in large shower counters (*Letter to the Editor*), W. L. Lakin, E. W. Petraske and W. T. Toner . . . **103** (1972) 431
servations on the performance of wide gap spark chambers, A. E. Brenner, D. Grossman, D. Petersen, F. D. Rudnick, J. H. Scharenguivel, K. Strauch, J. K. Walker, D. Wearn, M. Wong and Sau Lan Wu . . . **103** (1972) 469
compact gas Cherenkov counter with large aperture, Z. Bar-Yam, J. de Pagter, J. Dowd and W. Kern . . . **103** (1972) 607
perimental measurements of the relative peak efficiencies of various Compton polarimeters, P. J. Twin . . . **103** (1972) 613
riggered spark gap with rotating electrodes, H. W. Fulbright . . . **104** (1972) 71
bifilar helical multiwire proportional chamber for position sensitive detection of minimum particles, D. M. Lee, S. E. Sobottka and H. A. Thiessen . . . **104** (1972) 179
tecteurs en verre; Influence de la masse et de l'énergie des particules sur le diamètre des traces, M. Lecerf et J. Péter . . . **104** (1972) 189
90 cm scattering chamber with novel design features, R. Verbruggen and W. R. McMurray . . . **104** (1972) 197
sponse of the liquid scintillators NE 230 to deuterons and NE 231 to protons, W. Bertl, W. Breunlich, A. Chalupka and S. Tagesen . . . **104** (1972) 205
w-noise silicon planar detectors for room temperature application, G. Keil and E. Lindner . . . **104** (1972) 209
multiwire proportional counter with integral readout delay line (*Letter to the Editor*), J. R. Gilland and J. G. Emming . . . **104** (1972) 241
lse shape discrimination with NE 211 liquid scintillator (*Letter to the Editor*), D. B. C. B. Syme and G. I. Crawford . . . **104** (1972) 245
large volume high purity germanium radiation detector (*Letter to the Editor*), J. Llacer . . . **104** (1972) 249
e response of NE-228 liquid scintillator to 3.5, 5.8 and 10.5 MeV protons, R. Madey and F. M. Waterman . **104** (1972) 253
ability improvement of ionization chambers, A. Yarom, R. Yair and B. Sabbah . . . **104** (1972) 257
esponse function of a good-geometry detector for a γ-ray cascade, B. R. Erdal and G. Rudstam . . . **104** (1972) 263
multiwire proportional chamber system for use in a large gap magnetic spectrometer, D. Blum, J. Boucrot B. Grossetête, W. McGill and H. Nguyen Ngoc . . . **104** (1972) 285
automatic spark chamber system with sonic and magnetostrictive read-out, K. R. Bentley, J. D. Davies, J. D. Dowell, C. McLeod, T. J. McMahon, H. B. van der Raay, T. G. Rhoades, F. J. Wickens, C. J. S. Damerell, R. J. Homer and M. J. Hotchkiss . . . **104** (1972) 299
esponse functions for sodium iodide scintillation detectors, M. J. Berger and S. M. Seltzer . . . **104** (1972) 317
rface barrier particle detectors, N. J. Hansen, R. G. Scott and D. J. Henderson . . . **104** (1972) 333
se of wire chambers in improving energy resolution of large scintillation counters, T. W. Millar and J. V. Jovanovich . . . **104** (1972) 447
esponse of the NBS "P2" standard ionization chamber in intense pulsed beams, J. E. E. Baglin, E. J. Bentz, Jr., R. W. Carr, C.-P. Wu and H. L. Schultz . . . **104** (1972) 575
ming system for Ge(Li) detectors, Yu. K. Akimov, K. Andert, A. I. Kalinin and H.-G. Ortlepp . . . **104** (1972) 581
lculated total efficiencies of coaxial Ge(Li) detectors with small disc sources, H. F. Atwater . . . **104** (1972) 589
the possibility of using superconducting neuristor line as particle detector, A. K. Drukier . . . **104** (1972) 593
e-Si alloy – A new type of nuclear radiation detector, P. Alexander and H. Shulman . . . **104** (1972) 597
ecipe for making a thin film detector, M. L. Muga, D. J. Burnsed and W. E. Steeger . . . **104** (1972) 605
sition sensitive response of a thin film detector to the passage of alpha particles, L. Muga . . . **105** (1972) 61
e influence of strong magnetic fields and temperature on the pulse rise time in planar Ge(Li)-detectors, H. Feigelbinder and H. W. Weber . . . **105** (1972) 65
high efficiency fast response detector for 14 MeV neutrons, I. Experimental, M. Shaanan and E. Friedman . . **105** (1972) 69
high efficiency fast response detector for 14 MeV neutrons, II. Evaluation by the Monte Carlo method, J. Adir, S. Katz and U. Salmi . . . **105** (1972) 73
onte Carlo calculation of efficiencies and response functions of NaI(Tl) crystals for thick disk gamma-ray sources and its application to Ge(Li) detectors, T. Nakamura . . . **105** (1972) 77
precise 14 MeV neutron detector, C. A. Feu Alvim and A. N. dos Santos . . . **105** (1972) 289
position sensitive surface barrier array type detector, N. J. Hansen, D. J. Henderson and R. G. Scott . . . **105** (1972) 293
ficiency determination for some standard type Ge(Li) detectors for gamma-rays in the energy range from 0.04 to 11 MeV, H. Seyfarth, A. M. Hassan, B. Hrastnik, P. Göttel and W. Delang . . . **105** (1972) 301
simple π^+ detector for energies of 10–70 MeV, M. J. Saltmarsh, B. M. Preedom, R. D. Edge and C. W. Darden III . . . **105** (1972) 311
quartz cristallin détecteur de traces de particules lourdes chargées, M. Sowinski, C. Stéphan, T. Czyzewski et J. Tys . . . **105** (1972) 317
investigation of some fundamental limitations to the spatial resolution of a gas proportional counter, J. Hough **105** (1972) 323
mparative pulse-height anomaly for protons and alpha-particles in silicon surface barrier detectors, K. W. Kemper and J. D. Fox . . . **105** (1972) 333
otomultiplier tube pulses induced by high energy electrons (*Letter to the Editor*), S. Fukui, K. Watanabe, A. Yamamoto, M. Kasuya and T. Fujii . . . **105** (1972) 391
ectrostatic problems in multiwire proportional chambers, G. A. Erskine . . . **105** (1972) 565
ccurate measurement of the counting efficiency of a NE-213 neutron detector between 2 and 62 MeV, M. Drosg **105** (1972) 573
a timing circuit for Ge(Li) detectors, L. Karlsson . . . **106** (1973) 161

Construction and performance of 1 m × 1 m multiple wire proportional chambers, K. B. Burns, B. R. Grummon, T. A. Nunamaker, L. W. Mo and S. C. Wright 106 (1973)

A portable monitor for tritium in air, R. V. Osborne and A. S. Coveart 106 (1973)

On the pulsing of streamer chambers, Peter Rice-Evans and Ibrahim Hassairi 106 (1973)

Time delay effects in a neutron detector surrounded by polythene and applied to a statistical neutron counting experiment, L. Moberg 106 (1973)

Accurate efficiency calibration and properties of semiconductor detectors for low-energy photons, J. S. Hansen, J. C. McGeorge, D. Nix, W. D. Schmidt-Ott, I. Unus and R. W. Fink 106 (1973)

Clearing field effects in sealed glass spark chambers, R. J. Stubbs and J. M. Breare 106 (1973)

A high energy neutron detector using proportional wire chambers, M. Atac, R. Majka and S. Dhawan 106 (1973)

An improved flexible detector cryostat, H. F. Franke 106 (1973)

Track formation in a liquid hydrogen ultrasonic bubble chamber, R. C. A. Brown, H. J. Hilke and P. D. Jarman 106 (1973)

A pulse-matching method for estimating the gas amplification factor in proportional counters, R. W. Hendricks 106 (1973)

Reduction of the counting losses in a time analyser by the use of an intermediate memory, M. Salama and I. Hamouda 106 (1973)

The scintillation chamber: A high efficiency detector insensitive to source displacements (*Letter to the Editor*), E. Bruninx 106 (1973)

Decay constant of CsI(Na) scintillators (*Letter to the Editor*), A. Yarom, D. Ben-Zeev and D. Inbar 106 (1973)

A fast zero-time detector for heavy ions using the channel electron multiplier, W. Pfeffer, B. Kohlmeyer and W. F. W. Schneider 107 (1973)

Efficiency of Ge(Li) thin window detectors near absorption edge of germanium, G. Forcinal 107 (1973)

The operation of a track sensitive hydrogen target in a 500 l neon hydrogen bubble chamber, J. F. Ayres, T. G. Coleman, A. R. Damerell, C. M. Fisher, E. W. Fitzharris, J. H. Foster, P. Gottfeldt, B. Mack, A. R. Mortimer, P. Seager, J. R. Stokoe, P. R. Williams, H. Leutz, T. Tischhauser and H. Wenninger 107 (1973)

Performance of the SLAC 2-meter streamer chamber in a study of multibody photoproduction, D. C. Fries, M. Davier, I. Derado, F. F. Liu, R. F. Mozley, A. C. Odian, J. Park, W. P. Swanson, F. Villa and D. Yount 107 (1973)

New investigations into the detection properties of hybrid chambers, V. Böhmer 107 (1973)

Measurement of total particle energy in a large solid angle detector, Donald Fredrickson, Jim Carroll, Michael Goitein, Robert Kline, Burns MacDonald, Victor Perez-Mendez and Albert Stetz 107 (1973)

Large volume, high efficiency scintillation detectors using multiple NaI(Tl) crystal pieces, G. J. Fishman and D. M. Walker 107 (1973)

Some progress in projection chambers, A. Breskin, G. Charpak and K. Geissler 107 (1973)

Method for elimination of quartz-face phototubes in Cherenkov counters by use of wavelength-shifter, E. L. Garwin, Y. Tomkiewicz and D. Trines 107 (1973)

A possible solution to the right-left ambiguity in drift chambers, G. Charpak and F. Sauli 107 (1973)

The etching of polycarbonate charged particle detectors by aqueous sodium hydroxide, H. G. Paretzke, T. A. Gruhn and E. V. Benton 107 (1973)

Spark chamber efficiency in the presence of very small clearing fields, R. J. Stubbs and J. M. Breare 107 (1973)

Spark chamber with multi-track capability, S. Attenberger, J. Eickmeyer, S. Michalowski, N. Mistry, T. Padgett, L. Roberts and R. Talman 107 (1973)

A 1-atm gas Cherenkov counter with large phase-space acceptance, R. J. Cence, F. A. Harris, B. D. Jones, R. E. Morgado, L. M. Shiraishi and D. E. Yount 108 (1973)

Radiation induced coloring of Cherenkov counter glasses, M. Goldberg, P. L. Mattern, K. Lengweiler and P. W. Levy 108 (1973)

Position sensitive particle detectors used in a magnetic spectrometer, H. W. Fulbright, R. C. Markham and W. A. Lanford 108 (1973)

Some characteristics of a capacity read-out spark chamber, G. T. J. Arnison 108 (1973)

Statistical model of fast multifold coincidence circuits of serial structure, J. Kalisz 108 (1973)

Background current of the liquid ionization chamber (*Letter to the Editor*), Takeyoshi Nakayama and Minoru Kawano 108 (1973)

The rate of ionization loss and intrinsic resolution of cadmium telluride detectors, H. V. Gupta and A. K. Chaubey 108 (1973)

Performance of a gas-Cherenkov gamma-ray telescope, D. Koch, S. E. Ball, Jr., M. Campbell, J. P. Delvaille, K. Greisen, D. McBreen G. G. Fazio, D. R. Hearn and H. F. Helmken 108 (1973)

A fixed loss fission detector, David L. Banner and J. B. Czirr 108 (1973)

A cryogenic scintillation-photodiode detector for penetrating charged particles (*Letter to the Editor*), J. E. Bateman and F. E. Özsan 108 (1973)

High-accuracy drift chambers and their use in strong magnetic fields, G. Charpak, F. Sauli and W. Duinker 108 (1973)

A glass track chamber, A. Breskin and G. Charpak 108 (1973)

A plastic scintillation counter with an effective attenuation length of 25 m, S. A. Gabriele, P. Giusti, T. Massam, G. Valenti and A. Zichichi 108 (1973)

Mechanism of aluminum contacts in surface barrier detectors, L. P. Andersson and S. Berg 108 (1973)

mproved zero-time detector for heavy ion time-of-flight spectroscopy (*Letter to the Editor*), E. Dietz, J. v. Czarnecki, W. Patscher, W. Schäfer and R. Bass . . . **108** (1973) 607
Compensation for gain variation with rate in a NaI(Tl) scintillation counter (*Letter to the Editor*), M. Birk, Y. Eisen and Z. Vager . . . **108** (1973) 611
Gd-loaded plastic scintillator (*Letter to the Editor*), J. B. Czirr . . . **108** (1973) 613
Tritium measurements with a new liquid scintillation counter, John E. Noakes, Michael P. Neary and James D. Spaulding . . . **109** (1973) 177
A target chamber for the measurement of capture reactions, Walter del Bianco . . . **109** (1973) 189
Das effektive Zentrum des Long-Counters, M. Heinzelmann und F. Rohloff . . . **109** (1973) 205
Track-diameter kinetics in dielectric track detectors, G. Somogyi and S. A. Szalay . . . **109** (1973) 211
Comparison of plastic scintillators with nanosecond lifetimes, T. M. Kelly, J. A. Merrigan and R. M. Lambrecht **109** (1973) 233
A "scaled" MWPC with 0.5 mm wire spacing, P. A. Souder, J. Sandweiss and A. A. Disco . . . **109** (1973) 237
Absolute efficiency calibration of coaxial Ge(Li) detectors for the energy range 160-1330 keV, L. A. McNelles and J. L. Campbell . . . **109** (1973) 241
Neutron imaging with thin gadolinium converters, A. A. Harms, T. G. Blake and J. P. Marton . . . **109** (1973) 253
ome properties of xenon liquid-filled nuclear detectors, J. Prunier, R. Allemand, M. Laval and G. Thomas . . **109** (1973) 257
^{66}Ho^{m} as an efficiency calibration standard for Ge(Li) detectors, N. Lavi . . . **109** (1973) 265
Liquid scintillators based on normal alkanes and intermediate solvents, Y. Koike . . . **109** (1973) 269
A simple method for making a fast inorganic scintillator screen for the detection of fission fragments, M. Nobes . **109** (1973) 275
olid-angle correction factors for "five-sided" coaxial Ge(Li) detectors (*Letter to the Editor*), K. S. Krane **109** (1973) 401
Absolute field distribution in gaseous proportional counters of box-type geometry (*Letter to the Editor*), Michael P. R. Waligórski . . . **109** (1973) 403
Variable detector mounting assembly for silicon surface barrier detectors (*Letter to the Editor*), U. Quast and U. Nocken . . . **109** (1973) 407
The black neutron detector, W. P. Poenitz . . . **109** (1973) 413
Proportional chambers with monofilar helical cathodes for high spatial resolution, D. M. Lee, S. E. Sobottka and H. A. Thiessen . . . **109** (1973) 421
Detection of proton-induced $C(K_\alpha)$ X-rays with Si(Li) detectors, R. G. Musket and W. Bauer . . . **109** (1973) 449
An important precaution in the etching of solid state nuclear track detectors, H. A. Khan . . . **109** (1973) 515
On the localization of the position of the particle along the wire of a multiwire proportional chamber, H. Foeth, R. Hammarström and C. Rubbia . . . **109** (1973) 521
Towards the triggered bubble chamber, Peter Rice-Evans . . . **109** (1973) 525
Determination of gold-layer and dead-layer thicknesses for a Si(Li) detector, R. G. Musket and W. Bauer **109** (1973) 593
The fabrication of radial position sensitive detectors by ion implantation (*Letter to the Editor*), A. Feuerstein and S. Kalbitzer . . . **109** (1973) 601
Humidity effects in the 138A ionization chamber (*Letter to the Editor*), M. J. Woods . . . **109** (1973) 615

nstruments and Methods for High-Energy Physics

tar production by high-energy hadrons, K. O'Brien . . . **101** (1972) 551
Muon identification using multiwire proportional chambers, F. A. Harris, S. I. Parker, V. Z. Peterson, D. E. Yount and M. L. Stevenson . . . **103** (1972) 345
2π steradian magnetic spectrometer, J. F. McReynolds, D. Newton and W. A. Wenzel . . . **103** (1972) 397
caling method for super-high energies from experimental data below 30 GeV, G. Cecchet, R. Dolfini, F. Impellizzeri and S. Ratti . . . **103** (1972) 555
The application of X-ray transition radiation to charged particle detection in the 300 GeV region, J. E. Bateman **103** (1972) 565
hielding for ultrarelativistic muons, M. Ladu, M. Pelliccioni, P. Picchi and M. Roccella . . . **104** (1972) 5
ocusing system for neutrino experiments, I. A. Danilchenko, R. A. Rzaev, A. V. Samoylov and V. I. Voronov **105** (1972) 147
pplication of synchrotron radiation for the identification of electrons in high energy beams (*Letter to the Editor*), W. Busza, M. Chen and D. Luckey . . . **105** (1972) 613
total absorption spectrometer for energy measurements of high-energy particles, J. Engler, W. Flauger, B. Gibbard, F. Mönnig, K. Runge and H. Schopper . . . **106** (1973) 189
position algorithm for a high energy neutron detector using proportional wire chambers, William Tanenbaum **106** (1973) 393
ast digital processor for applications in high-energy physical experiments, A. A. Derevshchikov, Z. Guzik, Yu. A. Matulenko, S. B. Nurushev, Eu. V. Smirnov and V. L. Solovyanov . . . **108** (1973) 381

nstruments and Methods for Nuclear Spectroscopy

haracteristics of pyrolytic graphite as an analyzer and higher order filter in neutron scattering experiments, S. M. Shapiro and N. J. Chesser . . . **101** (1972) 183
recise measurements of peak fields of pulsed quadrupole magnets, M. Kobayashi, and S. Yamashita . . . **101** (1972) 187
versatile Mössbauer spectrometer and its applications in structural mechanics, J. J. Singh . . . **101** (1972) 199

The 100 MeV electron scattering facility at the University of Glasgow, G. R. Hogg, A. G. Slight, T. E. Drake, A. Johnston and G. R. Bishop **101** (1972) 2

Parabolisch gekrümmte Spiegel als Kondensoren thermischer und subthermischer Neutronenstrahlen, R. Rothbauer **101** (1972) 2

Distortions in the analysis of multipole components in quadrupole end fields caused by longitudinal field components and sag of the probe arm, V. Jung **101** (1972) 2

Experimental set up to study the light nuclei production in p-nucleus interaction, G. Roche, J. P. Costilhes, J. P. Alard, A. Baldit, J. Dhermain, J. Fargeix, L. Fraysse, J. C. Tamain, A. Cordaillat, A. Sicre, M. Audouard, M. Cornago and A. Pasinetti **101** (1972) 2

Einfluss der Absorberdicke auf die Photoelektronen–Konversionselektronen Interferenz beim Mössbauereffekt, P. West **101** (1972) 2

An in-flight pion beam flux monitor, L. V. Coulson, C. R. Fletcher, E. V. Hungerford, G. S. Mutchler, G. C. Phillips, M. L. Scott, J. C. Allred, Clark Goodman and B. W. Mayes **101** (1972) 2

Correction for loss of charged sigma decays in bubble chambers, J. Griselin, P. Granet and R. Barloutaud . . **101** (1972) 2

A technique for measurement of thermal neutron distributions at the surfaces of cylinders, D. G. Doutriaux and D. G. Andrews **101** (1972) 2

A Monte Carlo solution of multiple scattering in cold neutron scattering experiments, H. Kalli **101** (1972) 2

A detector for (n,γ) cross section measurements, J. Hellström and S. Beshai **101** (1972) 2

Design and sensitivity of a secondary emission monitor of accelerated electron beam position, I. A. Prudnikov, A. S. Toropov and Yu. F. Chichikalov **101** (1972) 2

Magnétomètre pour champs faibles à 10 ppm de résolution, Ch. Claessens, H. Warnant, R. Boving et A. Jones **101** (1972) 2

Effects of UO$_2$ deposit thickness on fission-fragment double-kinetic-energy measurements, R. A. Lerche, B. W. Wehring and M. E. Wyman **101** (1972) 2

A time-of-flight spectrometer for ultracold neutrons, A. Steyerl **101** (1972) 2

Improved beam energy resolution for a tandem accelerator, T. G. Dzubay, E. G. Bilpuch, F. O. Purser, J. D. Moses, H. W. Newson and G. E. Mitchell **101** (1972) 4

Monte Carlo calculations for thin NaI(Tl) crystals at energies below 100 keV, R. C. Sharma, S. P. Garg and S. Somasundaram **101** (1972) 4

The anomalous straggling of alpha particles in aluminium compared to other absorbers, D. A. Sykes and S. J. Harris **101** (1972) 4

On-line computer control of differential scattering measurements on ion-atom collisions, M. Strechinsky, M. Abignoli and J. Baudon **101** (1972) 4

A large electromagnetic shower detector with high rejection power against pions, M. Basile, J. Berbiers, D. Bollini, A. Buhler-Broglin, P. Dalpiaz, P. L. Frabetti, T. Massam, F. Navach, F. L. Navarria, M. A. Schneegans and A. Zichichi **101** (1972) 4

A comparison of modulated source and modulated poison neutron oscillators, G. Shani **101** (1972) 4

Comparison of some methods for timing Si(Li) detectors, A. Hofmann, G. Philipp, K. Thomas and F. Vogler . **101** (1972) 4

Oxygen and carbon assay of metal foils by nuclear reactions, A. J. Kennedy, J. C. Pacer, A. Sprinzak, J. Wiley and N. T. Porile **101** (1972) 4

A high resolution spectrometer system with particle identification for 1 through 60 MeV hydrogen and helium particles, F. E. Bertrand, W. R. Burrus, N. W. Hill, T. A. Love and R. E. Peelle **101** (1972) 4

Two counter geometry factor for bremsstrahlung experiments, J. Birchall **101** (1972) 4

Equilibrium charge distributions of light ions in helium, measured with a position-sensitive open electron multiplier, P. Hvelplund, E. Lægsgaard and E. Horsdal Pedersen **101** (1972) 4

The simple use of a digital multimeter for beam current integration, K. Schmid, H. Müller and H. Ryssel . . **101** (1972) 5

The Buenos Aires isotope separator on-line facility (IALE Project), A. Achterberg, F. C. Iglesias, A. E. Jench, A. Kasulin, E. Kerner, J. Mónico, J. A. Moragues, D. Otero, M. L. Pérez, M. Pinamonti, A. N. Proto, R. Requejo, J. J. Rossi, W. Scheuer and J. F. Súarez **101** (1972) 5

An electronically gated gamma and X-ray calibration scheme, D. J. Forrest, P. R. Higbie, L. E. Orwig and E. L. Chupp **101** (1972) 5

A versatile Klystron bunching system for a 5.5 MV Van de Graaff accelerator, J. J. Kritzinger, W. R. McMurray and R. J. Nuspliger **101** (1972) 5

Electronic counting and projection of etched tracks in solid state nuclear track detectors (SSNTD), H. A. Khan and S. A. Durrani **101** (1972) 5

Timing walk and time resolution estimated by least-squares fitting (*Letter to the Editor*), R. A. Lerche, B. W. Wehring and M. E. Wyman **101** (1972) 5

Absolute calibration of a ^{12}C polarimeter for deuterons between 20 and 30 MeV (*Letter to the Editor*), G. Perrin, Nguyen van Sen, A. Fiore and J. Arvieux **101** (1972) 6

Linear combination of Lorentzian and Gaussian profiles to fit resonance spectra (*Letter to the Editor*), J. J. Peyre and G. Principi **101** (1972) 6

Characteristics of stripping neon ions with carbon foils (*Letter to the Editor*), S. T. Thornton, R. H. McKnight and R. C. Ritter **101** (1972) 6

Monte Carlo calculation of the self-absorption of gamma rays in a disc shaped source (*Letter to the Editor*), B. F. Peterman . . . **101** (1972) 611
xperimental apparatus to study the interaction π^+ mesons in ^{4}He, L. Busso, S. Costa, R. Garfagnini, G. Piragino, R. Barbini, C. Guaraldo and R. Scrimaglio . . . **102** (1972) 1
A generator for producing monoenergetic, high intensity, soft X-rays, J. L. Gaines . . . **102** (1972) 7
The electrostatic potential in a toroidal condenser, H. Wollnik, T. Matsuo and H. Matsuda . . . **102** (1972) 13
Mars I: The geometrical characteristics of the Durham magnetic automated research spectrograph, C. A. Ayre, M. A. Hamdan, C. J. Hume, F. W. Stubbs, M. G. Thompson, S. C. Wells and M. R. Whalley . . . **102** (1972) 19
Mars II: The operation and elements of the spectrograph, C. A. Ayre, M. A. Hamdan, C. J. Hume, B. C. Nandi, M. G. Thompson, S. C. Wells and M. R. Whalley . . . **102** (1972) 29
Mars III: The storage and analysis of the spectrograph data, M. G. Thompson and S. C. Wells . . . **102** (1972) 35
A charge assymmetry measurements system, R. M. Graven, J. H. Brewer, R. J. Budnitz, R. L. McCarthy and D. H. Miller . . . **102** (1972) 45
Design of a tagged photon–electron beam facility for NAL, C. Halliwell, P. J. Biggs, W. Busza, M. Chen, T. Nash, F. Murphy, G. Luxton and J. D. Prentice . . . **102** (1972) 51
Radiative-neutron-capture gamma-ray analysis by a linear combination technique, A. B. Tanner, R. C. Bhargava, F. E. Senftle and J. M. Brinkerhoff . . . **102** (1972) 61
Use of an electrostatic particle guide for time-of-flight spectroscopy of low energy ions, J. C. Abbe, S. Amiel and R. D. MacFarlane . . . **102** (1972) 73
nfluence of transit time differences on photomultiplier time resolution, F. De la Barre . . . **102** (1972) 77
A method for obtaining a homogeneous flux in a reactor beam tube, D. Kedem, M. Mahlav and I. Pelah . . . **102** (1972) 87
High density windowless gas target, J. Ulbricht, G. Clausnitzer and G. Graw . . . **102** (1972) 93
Compton scattered neutron capture gamma rays for photofission studies, R. A. Anderl, J. E. Hall, R. C. Morrison, R. G. Struss, M. V. Yester and D. J. Zaffarano . . . **102** (1972) 101
Transmission sputtering and recoil implantation from thin metal films under ion bombardment, J. G. Perkins and P. T. Stroud . . . **102** (1972) 109
Differential cross-section for scattering of a non-parallel non-uniform beam in a target of finite size and absorption, S. Harigovindan . . . **102** (1972) 117
nternal conversion electron measurement using a β-e and β-γ coincidence apparatus, S. Ohya, T. Tamura and Z. Matumoto . . . **102** (1972) 121
on optics and performance of a double focusing 270° magnetic analyzer, Yu. G. Basargin, N. I. Boldin, L. E. Korolev, V. G. Levchenco, Yu. P. Severgin, Yu. V. Gofman and V. Z. Maidikov . . . **102** (1972) 125
A multi-purpose data-handling system, E. W. A. Lingeman, W. L. Posthumus and H. W. Leenaarts . . . **102** (1972) 167
Geometrical corrections in coincidence measurement of nuclear reactions using gas target, K. Kondo and J. Sanada . . . **102** (1972) 189
Fast-neutron flux measurement with a lithium-drifted germanium detector, D. L. Smith . . . **102** (1972) 193
Particle identification for a position sensitive proportional counter, M. E. Williams, T. Kruse, D. Bayer, N. Williams and W. Savin . . . **102** (1972) 201
Analysis of five line hyperfine split Mössbauer absorber spectra, N. Hershkowitz, R. D. Ruth, S. A. Wender and A. B. Carpenter . . . **102** (1972) 205
Conversion of bremsstrahlung photo neutron mean energies to monochromatic photo neutron mean energies, H. H. Thies, B. W. Thomas, F. Lee, R. Koch and D. M. Crawford . . . **102** (1972) 219
A dual Ge(Li)-dual NaI(Tl) gamma-ray spectrometer, F. P. Brauer, J. H. Kaye, J. E. Fager, W. A. Mitzlaff and H. G. Rieck, Jr. . . . **102** (1972) 223
Reproduction of monoenergetic electron lines in a 4π-Si(Li)-β-spectrometer using a coincidence method, D. Flothmann, H. J. Gils, R. Löhken and W. Wiesner . . . **102** (1972) 237
Étude du regroupement par modulation de vitesse à *n* fentes, A. Noblet . . . **102** (1972) 245
sobars from the spallation reaction for nuclear spectroscopy, R. Arlt, V. A. Bystrov, W. Habenicht, E. Herrmann, V. I. Raiko, H. Strusny and H. Tyrroff . . . **102** (1972) 253
Detailed description of a simplified radio-liquid chromatograph, K. Tomono, N. Tokunaga, A. Koyano, M. Toyohara and A. Shigematsu . . . **102** (1972) 257
Analysis and interpretation of gamma and alpha spectra with a small real-time computer, P. de Regge . . . **102** (1972) 269
Design of an electrostatic electron spectrometer, W. Denk and T. von Egidy . . . **102** (1972) 281
On a linear amplifier for high resolution nuclear pulse analysis, L. Karlsson . . . **102** (1972) 285
Rise time gated leading edge trigger for improved timing of monoenergetic gamma rays with Ge detectors, Z. H. Cho and R. L. Chase . . . **102** (1972) 299
Kinematic separations for three body final state reactions, D. T. Thompson and G. E. Tripard . . . **102** (1972) 327
Optimum absorber thickness for single line Mössbauer effect in the presence of strong non-resonant absorption, J. Pelzl . . . **102** (1972) 349
The optimisation of possible tests of the validity of time-reversal, B. A. Logan . . . **102** (1972) 353
An improved method for livetime correction in pulse height spectroscopy (*Letter to the Editor*), G. Hartmann, J. W. Klein and H. Faatz . . . **102** (1972) 361

On the origin of the background counting rate of curved channel multipliers (*Letter to the Editor*), R. D. Andresen and D. E. Page **102** (1972)
A surface-barrier beam monitor (*Letter to the Editor*), W. L. Lakin **102** (1972)

PROCEEDINGS OF THE THIRD INTERNATIONAL SYMPOSIUM ON RESEARCH MATERIALS FOR NUCLEAR MEASUREMENTS

Session A

Preparation of nuclear research materials with a laboratory-type isotope separator, J. Lerner **102** (1972) 3
The use of an electromagnetic isotope separator in preparing special research samples, G. D. Alton and L. O. Love **102** (1972) 3
The use of electrodeposition methods to prepare actinide targets for cross-section measurements and accelerator bombardments, J. E. Evans, R. M. Lougheed, M. S. Coops, R. W. Hoff and E. K. Hulet **102** (1972) 3
Preparation of self-supporting, metallic foils of isotopic chromium, P. R. Kuehn, F. R. O'Donnell and E. H. Kobisk **102** (1972) 4

Session B

Sample preparation by metallurgical methods, J. van Audenhove and J. Joyeux **102** (1972) 4
Preparation of actinide metal targets using special casting techniques, W. V. Conner **102** (1972) 4
Manufacture of clad fissionable foils for ZPR measurements, A. G. Hins **102** (1972) 4
The preparation of powder samples, V. Verdingh **102** (1972) 4
High-temperature neutron dosimeters, J. Joyeux and J. van Audenhove **102** (1972) 4
Preparation of neutron dosimeters for reactors, W. D. Box **102** (1972) 4

Session C

Techniques used at Harwell in the preparation of stable and active nuclide targets, K. M. Glover, F. J. G. Rogers and T. A. Tuplin **102** (1972) 4
Preparation of isotopic accelerator targets, J. M. Heagney **102** (1972) 4
Fabrication of target foils by rolling techniques, F. J. Karasek **102** (1972) 4
Preparation of isotope targets by heavy ion sputtering, G. Sletten and P. Knudsen **102** (1972) 4
Preparation of targets of alpha-radioactive isotopes, G. Sletten **102** (1972) 4
Preparation of standard layers by vacuum evaporation, E. Eschbach **102** (1972) 4

Session D

Special techniques in target preparation for Chalk River nuclear physics experiments, J. L. Gallant **102** (1972) 47
A simple technique of producing thin carbon films, P. Maierkomor **102** (1972) 48
Thin film radiation sources by radiofrequency sputtering, J. H. Jarrett **102** (1972) 48
The preparation of layers by electrospraying and electrophoresis, V. Verdingh **102** (1972) 49
Tritium-containing targets for high-yield neutron generators, F. R. O'Donnell and H. L. Adair **102** (1972) 50
Production and crystal growth of isotopic rare-earth metals, R. E. Reed and W. B. Grisham **102** (1972) 51

Session E

Experimental approaches to well controlled studies of thin-film nucleation and growth, H. Poppa, R. D. Moorhead and K. Heinemann **102** (1972) 52
The preparation and characterization of single crystals silver films, T. S. Noggle **102** (1972) 53
Thick self-supporting amorphous germanium films, Á, Barna, P. B. Barna, J. F. Pócza, I. Pozsgai and A. Dévényi **102** (1972) 54
A study of various parting agents for producing self-supporting thin films, D. N. Braski **102** (1972) 55
X-ray determination of the composition profiles and diffusion generated substructure for small diffusion zones, C. R. Houska **102** (1972) 56

Session F

Assay of samples for nuclear measurements by physical methods, H. Moret and F. Verheyen **102** (1972) 57
Sampling and dilution problems in radioactivity measurements, W. van der Eijk and R. Vaninbroukx **102** (1972) 58
Assay of samples for nuclear measurements by counting and chemical analysis, K. F. Lauer **102** (1972) 58
Target thickness and uniformity measurements using charged particles, H. L. Adair **102** (1972) 59
Analysis of pulse-rate dependent noise and counting losses in active processor with fast recovery, M. O. Deighton **103** (1972)

nstruction of a focussing atomic-beam magnetic resonance apparatus, C. Ekström, M. Olsmats and B. Wannberg 103 (1972) 13
timum design of a focussing atomic-beam magnetic resonance apparatus, M. Olsmats, B. Wannberg and I. Lindgren 103 (1972) 27
dead-time correction system for gamma-ray spectrometry of short-lived isotopes, J. Bartošek, F. Adams and J. Hoste 103 (1972) 45
rticle location along the length of a neon flash-tube, C. A. Ayre, M. G. Thompson, M. R. Whalley and E. C. M. Young 103 (1972) 49
WR measurements of linear accelerator structures by a photographic method, M. Ohkubo 103 (1972) 53
ecision gamma-ray spectroscopy of short-lived nuclides by the helium-jet recoil-transport method. W. W. Bowman, T. T. Sugihara and R. D. MacFarlane 103 (1972) 61
inexpensive multispectral scaling module, W. W. Bowman 103 (1972) 69
esure inductive d'un faisceau de particules chargées de faible intensité, M. Fois et F. Morlot 103 (1972) 71
oice of neutron filters in activation analysis, F. Rossitto, M. Terrani and S. Terrani 103 (1972) 77
neralized semiempirical equations for the extrapolated range of electrons, T. Tabata, R. Ito and S. Okabe 103 (1972) 85
graphical representation for γ-ray linear polarization coefficients, P. W. Green and D. M. Sheppard 103 (1972) 109
kilogauss impulse magnet, S. Kh. Khakimov, I. P. Lavrushkin, V. P. Martemianov, V. V. Ogurtzov and V. G. Tarasenkov 103 (1972) 135
effect of multiple scattering in a gas on the solid angle subtended by a circular aperture, A. H. Jaffey 103 (1972) 141
esign of shift register delays for random asynchronous data input, K. G. Porges and S. J. Rudnick 103 (1972) 157
rection correlation coefficients in compound nuclear reactions (*Letter to the Editor*), J. W. Tepel 103 (1972) 171
rection correlation coefficients in compound nuclear reactions; A reply (*Letter to the Editor*), P. W. Green, B. C. Robertson and D. M. Sheppard 103 (1972) 173
mment on "Digital corrector for multichannel counting of short- and medium-lived nuclides" (*Letter to the Editor*), D. N. Rao, J. L. Glen and D. Taylor 103 (1972) 175
plication of the helium-jet technique for fission fragment transport from spontaneous fission sources, K. Wien, Y. Fares and R. D. MacFarlane 103 (1972) 181
method of determining photonucleon cross sections for separate residual nuclei states utilizing continuum gamma-ray sources, D. Brajnik, D. Jamnik, G. Kernel, U. Miklavžič and J. Šnajder 103 (1972) 189
ree-body relativistic kinematics, S. D'Angelo, F. de Notaristefani and P. Monacelli 103 (1972) 197
paratus for spin-rotation measurements in pion-proton scattering at high energies, P. Autones, J. C. Brisson, A. Boucherie, G. Cozzika, J. Deregel, J. P. Duthil, H. Desportes, Y. Ducros, A. Katz, A. de Lesquen, J. P. Merlo, J. F. Mougel, J. Movchet, J. C. Raoul, B. Tsai, L. van Rossum, B. Amblard, J. M. Fontaine, M. Hansroul and J. M. Rieubland 103 (1972) 211
method for rapid comparison of angular distribution attenuation coefficients for detectors of arbitrary geometry, F. T. Avignone III 103 (1972) 225
nverter-thickness for optimum intensity in neutron-radiography, M. Müllner and H. Jex 103 (1972) 229
kG complex solenoid, E. G. Komar 103 (1972) 235
"annihilation spectrometer" for investigation of heavy meson spectra, J. Alspector, K. Cohen, C. Harrison, B. Maglich, J. Norem, J. Oostens, F. Sannes, D. van Harlingen, G. Cvijanovich and M. Matin 103 (1972) 239
EGAPHOL" – A fast on-line noncomputer multiparameter data reduction system, B. Maglich and F. Sannes 103 (1972) 245
in film of organic fluorescent materials for simple detection of alpha rays, Y. Koike, M. Handa and K. Yamamoto 103 (1972) 249
more accurate determination of the atmospheric concentrations of radon daughters by an α-spectrometric extrapolation method, L. Goumnerova and L. Minev 103 (1972) 253
proved computer method for polarity cross correlation, C. E. Cohn 103 (1972) 257
onochromatic method for measuring the 665 MeV mean proton energy by using Vavilov–Cherenkov radiation, V. P. Zrelov, M. A. Musin, P. Pavlovič, P. Šulek and R. Janik 103 (1972) 261
e change in beam spot size due to second-order effects in a first-order achromatic beam transport system, D. E. Lobb 103 (1972) 271
o decades of research on radioactivity; The impact of advances in instrumentation, J. H. Hamilton, J. C. Manthuruthil and J. O. Rasmussen 103 (1972) 277
versatile, high-resolution particle identifier – Theory, D. E. Greiner 103 (1972) 291
helium-recoil spectrometer, S. Dahlgren, A. J. Herz, S. Kullander, R. Lorenzi, T. Ekelöf, B. Höistad and A. Åsberg 103 (1972) 309
parated high-energy electron beams using synchrotron radiation, F. J. M. Farley, E. Picasso and L. Bracci 103 (1972) 325
compact electron spectrometer for in-beam measurements of internal conversion coefficients, A. Cambi, T. F. Fazzini, A. Giannatiempo and P. R. Maurenzig 103 (1972) 331
ion beam monitor for nanoampere currents, M. J. Hollis 103 (1972) 337
target chamber for charged particle induced X-ray fluorescence studies, E. J. Feldl and C. J. Umbarger 103 (1972) 341
shaper with universal logic of operation, S. G. Basiladze 103 (1972) 357

The new feature of 1–3 directional correlations with mixed unobserved transitions, I. V. Aničin, R. B. Vukanović and A. H. Kukoč **103** (1972)
A simple method for accurate measurements of total internal conversion coefficients (*Letter to the Editor*), S. Raman **103** (1972)
Ion-chamber device as electronic switch in high radiation field (*Letter to the Editor*), P. P. Chakraborty, S. G. Sahasrabudhe and R. K. Samant **103** (1972)
Self-absorption of gamma rays in large cylindrical samples (*Letter to the Editor*), W. R. Dixon **103** (1972)
Goniometer for implantation and channeling experiments (*Letter to the Editor*), A Pegoraro and G. Quirci **103** (1972)
Analyzing power in Si($\vec{p}$,p) below 15 MeV (*Letter to the Editor*), R. A. Hardekopf, D. D. Armstrong and P. W. Keaton, Jr **103** (1972)
Design considerations for the RPI three-stage isotope separator, T. Wilson Whitehead and F. A. White **103** (1972)
Crystallographic texture and differential perturbed angular correlations, E. N. Kaufmann **103** (1972)
A three-parameter magnetic tape data recording system, D. A. McClure, N. S. Kendrick and J. W. Lewis III **103** (1972)
On the possibility of measuring BEBC pictures with an HPD, F. Selonke, R. Wurth and H. H. Brockmann **103** (1972)
Multipole elements for the correction of image aberrations, H. Wollnik **103** (1972)
Rotation of the vertical polarization of a circulating electron beam into the horizontal plane by excitation of an imperfection resonance, T. Letardi and A. Turrin **103** (1972)
Measurement of harmonic field contents of pulsed magnets using a stepping search coil, M. Kobayashi and S. Yamashita **103** (1972)
A timing system for Ge(Li) detectors, F. Gabriel, H. Koepernik and K. Schöps **103** (1972)
A four-meter long superconducting magnetic flux exclusion tube for particle physics experiments, F. Martin, S. J. St. Lorant and W. T. Toner **103** (1972)
Particle trajectories in a toroidal condenser calculated in a third order approximation, T. Matsuo, H. Matsuda and H. Wollnik **103** (1972)
First results of triplet production measurements near the threshold with a streamer chamber technique; Experimental set-up, G. Roche, J. Arnold, J. Augerat, L. Avan, M. Avan, J. Bonnet, J. Fargeix, A. Fleury, J. Jousset, M. J. Parizet and M. Vialle **103** (1972)
Relations between hfs coupling and Mössbauer spectra parameters of ^{57}Fe in powdered absorbers, L. Dabrowski, J. Piekoszewski and J. Suwalski **103** (1972)
The role of target geometry in 14 MeV neutron capture cross-section measurements, M. Valkonen and J. Kantele **103** (1972)
Correction for multiple scattering in cold neutron experiments, A. Tiitta and E. Tunkelo **103** (1972)
A criterion for the solid angle optimization in the angular correlation measurements (*Letter to the Editor*), J. Honzátko and J. Kajfosz **103** (1972)
Determinations of nuclear level halflives in ^{85}Rb and ^{237}Np and their use as timing standards, G. H. Miller, P. Dillard, M. Eckhause and R. E. Welsh **104** (1972)
An automatic irradiation apparatus with on-line measurement system for the study of short-lived activities, K. Okano, Y. Nakagome, Y. Kawase, S. Uehara, Y. Nakano, K. Kanda and T. Shibata **104** (1972)
A spectrometer focal plane detector for heavy ions, B. G. Harvey, J. Mahoney, F. G. Pühlofer, F. S. Goulding, D. A. Landis, J.-C. Faivre, D. G. Kovar, M. S. Zisman, J. R. Meriwether, S. W. Cosper and D. L. Hendrie **104** (1972)
Symmetrical two-crystal Compton polarimeter for gamma rays, R. Bass, S. Brinkmann, C. von Charzewski and H. Hanle **104** (1972)
Eine schnelle Transportautomatik zur Untersuchung kurzlebiger Kernzustände bis in den Millisekunden-Bereich, O. Brandstädter, F. Girsig, F. Grass und R. Klenk **104** (1972)
A Compton spectrometer constructed with Si(Li) and Ge(Li) detectors, B. A. Logan, R. T. Jones and A. Ljubičić **104** (1972)
A critical study of emittance measurements of intense low-energy proton beams, L. R. Evans and D. J. Warner **104** (1972)
An analytical formula of K-shell photoeffect for intermediate and high Z atoms, Yin Yin Hla, Chit Khaing, May Su and A. M. Ghose **104** (1972)
Energy loss and straggling of alpha particles in argon, A. K. M. M. Haque and R. M. M. Hora **104** (1972)
Dead-time losses in a buffered data recording system, H. Øverås **104** (1972)
A high potential electron pre-accelerator for use with a magnetic beta-ray spectrometer, S. Morinobu and H. Ikegami **104** (1972)
New method for measurement of γ-ray polarization by detection of angular correlation in pair production, M. Kobayashi and K. Kondo **104** (1972)
Transient electron current observed in gas ionization chambers, S. Okabe, K. Tsumori and T. Tabata **104** (1972)
Analysis of surface layers by elastic backscattering, A. Turos and L. Wieluński **104** (1972)
A programming system for multi-parameter experiments and its application to nuclear bremsstrahlung measurements, R. Müller, U. Peyer, W. Wölfli, J. Hall and M. Suter **104** (1972)
Kiloampere current and charge measurements of a 2 MeV pulsed electron source, C. E. Dick, J. K. Whittaker and J. H. Sparrow **104** (1972)
A device for maintaining a constant detector counting rate from a decaying radioactive source, R. N. Thomas and R. V. Thomas **104** (1972)
Asymmetric linear Ge(Li)–Ge(Li) sum-peak coincidence spectrometer, H. Helppi and J. Kantele **104** (1972)
Curved silicon crystals as neutron monochromators, M. Antonini, M. Corchia, E. Nicotera and F. Rustichelli **104** (1972)

pressions simplifiées du rendement des réactions nucléaires dans le cas d'angles solides sous-tendus par des fentes, A. Bontemps . . . **104** (1972) 153

ss of protons in thin absorbers, P. U. Renberg, D. F. Measday, B. Favier, C. Richard-Serre, M. Pepin and P. Schwaller . . . **104** (1972) 157

Monte Carlo program for evaluating the response of a scintillation counter to monoenergetic gamma rays, R. J. D. Beattie and J. Byrne . . . **104** (1972) 163

e use of a pileup rejector in quantitative pulse spectrometry (*Letter to the Editor*), J. Bartošek, J. Mašek, F. Adams and J. Hoste . . . **104** (1972) 221

ıtomatic focusing of scanning microscopes (*Letter to the Editor*), B. Goel and R. Eggmann . . . **104** (1972) 225

libration of threshold activation detectors with 14 MeV neutrons (*Letter to the Editor*), P. N. Cooper and S. M. Kabir . . . **104** (1972) 227

ckground caused by tritium disintegration in deuterium chambers (*Letter to the Editor*), H. Yoshiki . . . **104** (1972) 231

fference between average and most probable energy losses for the Vavilov distribution (*Letter to the Editor*), B. Sellers and F. A. Hanser . . . **104** (1972) 233

detector for efficient backscatter Mössbauer effect spectroscopy (*Letter to the Editor*), B. Keisch . . . **104** (1972) 237

agnetic prism beta-ray spectrometers; A review, B. P. Peregood . . . **104** (1972) 343

esponse of ^{6}LiF and ^{7}LiF thermoluminescence dosimeters to fast neutrons, Y. Furuta and S. Tanaka . . . **104** (1972) 365

multi-terminal interactive graphics system using a small computer, D. Maden and R. A. Rosner . . . **104** (1972) 375

facility for the study of (n,x)-reactions using an isochronous cyclotron, L. Kropp and P. Forti . . . **104** (1972) 381

udies on the measurement of the disintegration rate of ^{63}Ni by 4π-β counting, Y. Lachance and J. C. Roy . . . **104** (1972) 393

comment on γ-γ directional correlation measurements in even-even nuclei (*Letter to the Editor*), H. W. Taylor **104** (1972) 401

oduction of azimuth-dependent magnetic fields for β-ray spectrometers with iron-free coils (*Letter to the Editor*), H. Daniel and P. Deimel . . . **104** (1972) 403

two-arm wire chamber spectrometer for use at 30–50 MeV incident proton energies, J. McKeown, L. G. Greeniaus, J. V. Jovanovich, W. F. Prickett, K. F. Suen and J. C. Thompson . . . **104** (1972) 413

onversion electron spectra; A line shape analysis for permanent magnet spectrographs, C. Diethrich and M. L. Wiedenbeck . . . **104** (1972) 455

onte Carlo calculations of relative efficiencies of Ge(Li) detectors, B. F. Peterman, S. Hontzeas and R. G. Rystephanick . . . **104** (1972) 461

otometric charge discrimination of non-relativistic heavy cosmic ions in nuclear emulsion, J. Sequeiros, F. Fernandez, R. Kaiser and V. Gandia . . . **104** (1972) 469

illance d'un faisceau d'ions cylindrique creux, R. Bercherer et F. Prevot . . . **104** (1972) 477

comparison of radiative capture with decay gamma-ray method in bore hole logging for economic minerals, F. E. Senftle, R. M. Moxham and A. B. Tanner . . . **104** (1972) 485

eometricals aspects of the performance of cosmic ray detector telescopes in non-isotropic particle distributions, T. R. Sanderson and D. E. Page . . . **104** (1972) 493

gh order aberrations for ion orbits in static magnetic fields, M. F. Tautz . . . **104** (1972) 505

ble à deutérium liquide, D. Blum, J. Boucrot, B. McGill, H. Nguyen Ngoc, B. Grossetête, J. P. Henault, R. Motta, M. Roch et V. Round . . . **104** (1972) 509

ıalysis procedure of gamma ray astronomy spark chamber data, K. Pinkau . . . **104** (1972) 517

Monte Carlo calculation of the analyzing efficiency of gamma-ray circular polarimeters, D. E. Lipson and J. C. Vanderleeden . . . **104** (1972) 525

ergy removed by delta rays from finite volumes in passage of charged particles, N. Laulainen and H. Bichsel **104** (1972) 531

ectral resolution improvement by non-damping filter, T. Inouye . . . **104** (1972) 541

easurement of magnetic field; A bibliographical review, J. K. D. Verma V. Raju and M. D. Aggarwal . . . **104** (1972) 545

e relation between restricted energy loss and track width in nuclear emulsions (*Letter to the Editor*), M. Jensen, L. Larsson and R. Rosander . . . **104** (1972) 611

e preparation of ^{241}Am sources by surface adsorption on different backings (*Letter to the Editor*), M. Bellemare, Y. Lachance and J. C. Roy . . . **104** (1972) 615

ıfolding methods in neutron spectra measurements by foil activation technique, R. Dierckx, M. L. Nimis, V. Sangiust and M. Terrani . . . **105** (1972) 1

gamma band-filter spectrometer, D. Geinoz and J. Kern . . . **105** (1972) 5

aitement par ordinateur de spectres gamma mesurés par détecteurs semi-conducteurs, E. Junod . . . **105** (1972) 13

ectral enhancement of cobalt neutron capture gamma rays, D. Duffey, P. F. Wiggins and A. A. El Kady . . . **105** (1972) 23

ıclear resonance fluorescence with a 5 Ci Pu-Be radioactive source, D. C. S. White and B. C. Robertson . . . **105** (1972) 29

foam-insulated liquid hydrogen target for streamer chambers, J. M. Watson, V. Sevcik and J. Pfeifer . . . **105** (1972) 33

ıalysing powers for protons elastically scattered by a thick silicon target, G. Hempel, A. Hofmann and K. Kilian . . . **105** (1972) 91

aluation précise des 3 composantes d'un champ magnétique à partir des tensions prélevées sur 3 sondes de Hall, B. Turck . . . **105** (1972) 97

ıx density measurements for 250 keV neutrons from the T(p,n) source reaction, A. Paulsen, H. Liskien and M. Cosack . . . **105** (1972) 103

Apochromatic method for measuring the mean 657 MeV proton energy by using Vavilov–Cherenkov radiation, V. P. Zrelov, P. Pavlovič and P. Šulek . . . **105** (1972)

An isocon TV camera-magnetic tape recorder system for the analysis of fast oscilloscope traces, G. Bosia, G. Marangoni, M. Maringelli and G. Navarra . . . **105** (1972)

A liquid gas target system for medium energy electron scattering, R. D. Wendling, V. H. Walther and H. Averdung . . . **105** (1972)

Methods for calculating the effects of errors which increase the beam spot size at the end of a beam transport system, D. E. Lobb . . . **105** (1972)

Utilisation de la méthode Hoogenboom pour des mesures de corrélations angulaires avec des détecteurs Ge(Li); Détermination des coèfficients de correction géométrique, M. Cailliau, M. J. de Bettencourt et R. Foucher . . . **105** (1972)

Quantitative X-ray analysis (*Letter to the Editor*), A. Pape, J. C. Sens, P. Fintz, A. Gallmann, H. E. Gove, G. Guillaume and D. M. Stupin . . . **105** (1972)

Calcul du spectre énergétique des neutrons émis par un massif sous critique à partir d'une mesure de temps de vol (*Letter to the Editor*), M. Rotival . . . **105** (1972)

Precision energy measurements of high energy gamma rays occurring in the decays of ^{46}Sc, ^{82}Br, ^{99}Mo and ^{110}Ag^{m} (*Letter to the Editor*), P. L. Gardulski and M. L. Wiedenbeck . . . **105** (1972)

Properties of a high current, long life lithium ion source, W. Möller and D. Kamke . . . **105** (1972)

A 4π β–γ-coincidence spectrometer using Si(Li) and NaI(Tl) detectors, H. J. Gils, D. Flothmann, R. Löhken, and W. Wiesner . . . **105** (1972)

Use of sticking coefficients for on-line chemical analysis of beams of short lived nuclides, J. R. Grover and H. V. Lilenfeld . . . **105** (1972)

Fonction d'excitation de la réaction ^{12}C(d,p$_0$)^{13}C entre 400 et 1350 keV – Distributions angulaires, M. Huez, L. Quaglia et G. Weber . . . **105** (1972) 1

Performance of a QDDD spectrograph, C. A. Wiedner, M. Goldschmidt, D. Rieck, H. A. Enge and S. B. Kowalski . . . **105** (1972) 2

A method for the determination of absolute photon spectrum of bremsstrahlung, M. Kusuhara . . . **105** (1972) 2

Dynamic polarization and relaxation of protons in 1,6-hexanediol and 1,8-octanediol: A feasibility study for a frozen spin polarized target, M. Borghini, T. O. Niinikoski, F. Udo and P. Weymuth . . . **105** (1972) 2

A principle for efficient production of short bursts of ions with small energy spread out of a finite emittance beam, K. W. Zieher . . . **105** (1972) 2

Méthode de calcul d'angles solides définis par un ensemble de diaphragmes de formes quelconques, M. Chatelier et D. Launois . . . **105** (1972) 2

Générateurs de courants faibles, J. Dalmazzone . . . **105** (1972) 2

Energy resolution of a multiwire proportional quantameter, T. Katsura, S. Parker, V. Z. Peterson, D. E. Yount and M. L. Stevenson . . . **105** (1972) 2

Die Elektronenstreu-Apparatur am Mainzer 300 MeV-Elektronen-Linearbeschleuniger, H. Ehrenberg, H. Averdung, B. Dreher, G. Fricke, H. Herminghaus, R. Herr, H. Hultzsch, G. Lührs, K. Merle, R. Neuhausen, G. Nöldeke, H. M. Stolz, V. Walther und H. D. Wolhfarth . . . **105** (1972) 2

A compact "two-step" dilution refrigerator for low temperature nuclear polarization, K. Nagamine, N. Nishida and H. Ishimoto . . . **105** (1972) 2

Ion bombardment induced photon and secondary electron emission, J. G. Martel and N. T. Olson . . . **105** (1972) 2

Method of fission chamber efficiency determination using uncorrelated neutron background measurement, V. Doolin and V. Mozhaev . . . **105** (1972) 2

An improved numerical method for determining composite decay constants, J. Higbie . . . **105** (1972) 2

Applications of superheated superconducting colloids as particle detectors, A. K. Drukier and C. Valette . . . **105** (1972) 2

In beam axial β-ray spectrometer for the measurement of internal conversion electrons (*Letter to the Editor*), J. M. Picone, J. F. Fitch, J. W. Baker, G. W. Hoffmann and C. F. Moore . . . **105** (1972) 3

Diffusion of lithium into germanium at low temperatures (*Letter to the Editor*), G. H. R. Kegel . . . **105** (1972) 3

Diffusion solutions of recoiled non-volatile fission products in solids (*Letter to the Editor*), A. S. Ong, L. R. Zumwalt and C. H. Fox . . . **105** (1972) 3

The use of the lithium-6 semiconductor sandwich spectrometer for the measurement of fast-neutron spectra, I. C. Rickard . . . **105** (1972) 3

An automatic scanner for nuclear emulsion plates, B. E. Fischer . . . **105** (1972) 4

A 4π-β-spectrometer using Si(Li)-detectors, B. M. Schmitz, K. Farzine and H. von Buttlar . . . **105** (1972) 4

Cherenkov counters for particle identification at high energies, M. Benot, J. Litt and R. Meunier . . . **105** (1972) 4

Analysis of gamma-ray linear polarization spectra obtained with a NaI Compton polarimeter, A. Turcotte and P. Taras . . . **105** (1972) 4

Gamma-ray intensity standards: The reactions ^{14}N(n,γ)^{15}N, ^{35}Cl(n,γ)^{36}Cl and ^{53}Cr(n,γ)^{54}Cr, G. D. Loper and G. E. Thomas . . . **105** (1972) 4

Interaction between correlated and uncorrelated time-interval distributions in start-stop time-to-amplitude converters, L. M. Lowe, J. F. Boulter and W. V. Prestwich . . . **105** (1972) 4

axial-cylinder electron spectrometer for beam-foil experiments, E. Dietz, K. O. Groeneveld, R. Spohr and R. Staudte **105** (1972) 467
ecial cryostat for Mössbauer effect investigations of lattice defects after low temperature neutron irradiation, P. Rosner, W. Vogl and G. Vogl **105** (1972) 473
interactive computer graphics approach to beam optics design, B. W. Davies **105** (1972) 477
large-aperture Cherenkov hodoscope for identification of multi-particle states, H. H. Williams, A. Kilert and D. W. G. S. Leith **105** (1972) 483
zeugung von Zeit-Referenzsignalen fur das Neutronen-Flugzeitspektrometer am Hamburger Isochronzyklotron mittels Szintillatorfolien, H.-J. Kellermann, H. O. Klages, H. Krause und R. Langkau **105** (1972) 493
chweisquerschnitt eines bleidotierten Plastszintillators fur γ-Streustrahlung unter Berücksichtigung der Detektorschwelle, A. Schaarschmidt und H. Dürner **105** (1972) 497
ite nuclear size effects in allowed β-decay, D. H. Wilkinson and R. E. Marrs **105** (1972) 505
timum data reduction of complex Mössbauer spectra: $^{129}I_2$, Rosalie Robinette, J. G. Cosgrove and R. L. Collins **105** (1972) 509
edium energy pion beam monitoring system, R. Barbini, S. Faini, C. Guaraldo, P. Picozza, C. Schaerf and R. Scrimaglio **105** (1972) 515
easurements of neutron angular distributions from the $^7Li(p,n)^7Be$ reaction, S. A. Elbakr, I. J. van Heerden, W. J. McDonald and G. C. Neilson **105** (1972) 519
on-line computer system for track chamber film measuring devices, G. Alexander, J. Grunberg, A. Meir, Y. Oren, A. Rubin, A. Seidman, T. Suranyi and E. Wolf **105** (1972) 525
erprétation des intensités mesurées en diffraction neutronique dans le cas de la diffraction élastique à deux axes avec bras levant, A. Delapalme **105** (1972) 533
method for search for nucleon resonances using internal beam during acceleration, F. Sannes and W. C. Harrison **105** (1972) 541
tra high vacuum system for ion-solid collision investigations connected to a conventional ion accelerator, G. Holmén, E. Kugler and O. Almén **105** (1972) 545
erenkov radiation in photomultiplier windows and the resulting time shift in delayed coincidence time spectra, S. Roodbergen, R. Kroondijk and H. Verheul **105** (1972) 551
ilization of 11.4 MeV photons from the $^{59}Ni(n,\gamma)^{60}Ni$ reaction for scattering experiments, R. Moreh and T. Bar-Noy **105** (1972) 557
assessment of a Mott-Schwinger scattering polarimeter for neutrons of a few MeV energy, R. B. Galloway and R. M. A. Maayouf **105** (1972) 561
simple detection system for (H.I.,α) reactions, B. Rosner and I. Tserruya **105** (1972) 585
precise timing method for the determination of short-lives (*Letter to the Editor*), L. Nunnelley, B. Boynton and W. D. Loveland **105** (1972) 593
convenient graph paper for depicting the behavior of the moment of inertia of high spin nuclear rotational states (*Letter to the Editor*), E. der Mateosian **105** (1972) 595
simple device for track counting in nuclear emulsions (*Letter to the Editor*), R. Malaroda and G. Zecchin **105** (1972) 597
ne schnelle Methode zur Targetdickenbestimmung (*Letter to the Editor*), K. Ewen und B. Gonsior **105** (1972) 599
ne zerlegbare hochvakuumdichte Hochspannungsdurchführung (*Letter to the Editor*), H. F. Franke **105** (1972) 601
am profile measuring device and focusing aid (*Letter to the Editor*), O. C. Kistner **105** (1972) 603
igh resolution, high sensitivity Compton polarimeter, M. J. Canty and A. Neskakis **106** (1973) 1
oton polarization in alcohols at 50 kG, 1 K, G. Hartmann, D. Hubert, S. Mango, C. C. Morehouse and K. Plog **106** (1973) 9
Mehrwegeventil für Hochvakuumanlagen, H. F. Franke **106** (1973) 13
computergesteuertes Experiment zur Aktivierungsanalyse, H. F. Franke und T. Schlurick **106** (1973) 15
o circuits for on-line monitoring of specific lines in a gamma spectrum, G. S. Brunson, R. N. Curran and F. H. Just **106** (1973) 21
sponse of multiple collimator system to extended sources, Edward M. Lent **106** (1973) 29
ast time analyzer embodying a high speed plated wire memory, Taichi Michikawa and Toshikazu Yoneyama **106** (1973) 35
ast analogue particle identification system, J. B. A. England **106** (1973) 45
raxial chromatic aberration of asymmetrized quadrupole lenses, Gy. Szabó **106** (1973) 61
igh-pressure gas target for mesic X-ray measurements, K. Springer **106** (1973) 65
determination of the recoilless fraction of Mössbauer absorbers, D. A. O'Connor and G. Skyrme **106** (1973) 77
igh temperature ion source for isotope separators, P. G. Johnson, A. Bolson and C. M. Henderson **106** (1973) 83
ime-of-flight spectrometer for neutrons from 1 to 500 MeV, Richard Madey and Frank M. Waterman **106** (1973) 89
yonnement de transition dans le domaine optique, produit par des électrons de 40-60 MeV à la traversée de lames métalliques, L. Wartski, J. Marcou, A. Papiernik, S. Roland, M. Bolore et G. Filippi **106** (1973) 103
asurement of oxygen-diffusion-profiles in silicon-single-crystals by means of the nuclear reaction $^{18}O(p,\alpha)^{15}N$, J. E. Gass, H. H. Müller, H. Schmied, L. Jörissen and G. Ziffermayer **106** (1973) 109
egative helium ion source with potassium vapour charge exchange, A. Vermeer, N. A. van Zwol and B. A. Strasters **106** (1973) 115

The problematic of the derivation of the electric fieldgradient asymmetry parameter from TDPAC measurements or Mössbauer spectroscopy in imperfect crystal lattices, M. Forker . . . **106** (1973)
Ion-cluster acceleration in an electron-ring device, F. Bottiglioni, J. Coutant, M. Fois and M. Cuer . . . **106** (1973)
Système numérique de commande d'un ensemble de mesure de distribution et corrélation angulaire, J. C. Pfleger et J. P. Weymann . . . **106** (1973)
The response of a silicon surface-barrier detector to bromine, iodine, and uranium ions, M. D. Brown . . . **106** (1973)
A simple Mössbauer resonance counter for surface studies (*Letter to the Editor*), J. Fenger . . . **106** (1973)
Monte Carlo studies of D_2O and H_2O neutron moderators for time of flight experiments, Harry S. Camarda . . . **106** (1973)
A compact EHT power supply for use with high pulse rate spark chambers, J. F. Connolly and A. S. Gilby . . . **106** (1973)
A new "hybrid" spectrometer for inelastic thermal neutron scattering, R. Kleb, G. E. Ostrowski, D. L. Price and J. M. Rowe . . . **106** (1973)
A method for the measurement of the cross-sections for the production of radioisotopes by charged particles from a cyclotron, I. A. Watson, S. L. Waters, D. K. Bewley and D. J. Silvester . . . **106** (1973)
Simulation of heavy ion scattering at strippers in beam optics calculations for tandem Van de Graaff accelerators, T. Joy . . . **106** (1973)
The dependence of energy straggling on the atomic number of the absorber, M. B. Al-Bedri, S. J. Harris and D. A. Sykes . . . **106** (1973)
Measurements and second-order calculations of the Eindhoven beam transport system, G. E. Sandvik, H. L. Hagedoorn and F. Schutte . . . **106** (1973)
Use of a spike cathode with a duoplasmatron ion source, K. R. Chapman, L. Rowton and S. Trimble . . . **106** (1973)
Method for finding the magnetic centre of a quadrupole field, R. W. Cobb, T. A. Hodges, A. D. Kirk, R. M. Pearce and L. P. Robertson . . . **106** (1973)
The detection at 0° of charged particles from nuclear reactions using a magnetic spectrometer, J. M. Calvert and J. B. Critchley . . . **106** (1973)
Momentum measurements in nuclear emulsions exposed in a megagauss field, H. H. Heckman and F. Herlach . . . **106** (1973)
Narrowing of the 14 keV Mössbauer emission line of ^{57}Fe by filtering, J. Craig Carrell . . . **106** (1973)
On the resolution of a position sensitive $^{10}BF_3$ proportional counter, G. P. Westphal . . . **106** (1973)
Apparatus for recording scintillation pulse contours from liquid solutions excited by ionizing particles, I. B. Berlman and O. J. Steingraber . . . **106** (1973)
Electron scattering effects in directional correlations, V. Stefánsson, L. Holmberg and B.-G. Pettersson . . . **106** (1973)
Effect of energetic electron irradiation upon charged-particle track registration in polycarbonate films, A. N. Goland and E. der Mateosian . . . **106** (1973)
Determination of track parameters by diffraction method using laser light, M. Várnagy, J. Szabó, S. Juhász and J. Csikai . . . **106** (1973)
Exact least squares fitting of gamma ray angular distributions with several restricted linear parameters, R. A. I. Bell . . . **106** (1973)
Experimental verification of the flatness of response of a multi-BF_3-counter neutron detection system, D. M. Crawford, B. W. Thomas, K. Böttcher, R. Koch and H. H. Thies . . . **106** (1973)
Measurements of gamma-ray attenuation coefficients of organic scintillators, B. Goswami and N. Chaudhuri . . . **106** (1973)
Partial deconvolution as a means of studying the limitations on resolution of spectra imposed by noise, B. V. Bronk and W. B. Whitten . . . **106** (1973)
Track storage in a wide gap spark chamber for a time up to 1 ms, T. L. Asatiani, Val. A. Ivanov, Vit. A. Ivanov and V. M. Krishchian . . . **106** (1973)
Multiparameter photon difference analysis, H. H. Thies, D. M. Crawford, K. Böttcher, R. K. Gupta, R. Koch and B. W. Thomas . . . **106** (1973)
The resolution function of a triple-axis neutron spectrometer, Boris Grabcev . . . **106** (1973)
Improved delay lines for proportional wire chamber readout (*Letter to the Editor*), R. Grove, V. Perez-Mendez and J. Sperinde . . . **106** (1973)
An absolute synchronization system for Mössbauer spectroscopy (*Letter to the Editor*), N. H. J. Gangas, N. Gaitanis, A. Kostikas and A. Simopoulos . . . **106** (1973)
Data analysis methods in time correlation mean lifetime measurements, A. M. Dumont and C. Camhy-Val . . . **106** (1973)
Dependence of the integrated intensity of a scattered neutron group on the experimental conditions, G. Dolling and V. F. Sears . . . **106** (1973)
Corrections to the Bethe–Bloch formula for average ionization energy loss of relativistic heavy nuclei, S. H. Morgan, Jr. and P. B. Eby . . . **106** (1973)
A Doppler shift attenuation method for measuring lifetimes in the range 10^{-13}–10^{-15} s using heavy-ion induced reactions, D. Branford and I. F. Wright . . . **106** (1973)
Neutron spectra estimation from proton recoil data, G. A. Mutone and Walter Meyer . . . **106** (1973)
The resolution function of a hybrid neutron spectrometer, Olav Steinsvoll . . . **106** (1973)
Moving crystal slow-neutron wavelength analyser, B. Buras and J. K. Kjems . . . **106** (1973)
On the analysis of continuous flow activated systems with non-instantaneous mixing, Malcolm C. Scott and M. Ashraf Atta . . . **106** (1973)

curacy of the photon-difference method in the giant dipole resonance region, Chiri Yamaguchi, Takakazu Shintomi and Masayoshi Masuda . . . **106** (1973) 471
urces of polarized neutrons from 2 to 33 MeV using polarization transfer reactions at 0°, J. E. Simmons, W. B. Broste, T. R. Donoghue, R. C. Haight and J. C. Martin . . . **106** (1973) 477
herent ambiguities in gamma ray angular correlation experiments, P. J. Twin . . . **106** (1973) 481
e measurement of the spatial coordinates of high energy photons with a scintillation hodoscope spectrometer, Yu. B. Bushnin, S. V. Klimenko, R. N. Krasnokutsky, Yu. V. Michaylov, Yu. D. Prokoshkin, E. A. Rasuvaev and R. S. Schuvalov . . . **106** (1973) 493
multiwire proportional counter technique for standardization of low-energy photon sources, W. M. Chew, J. C. McGeorge and R. W. Fink . . . **106** (1973) 499
t to experimental data with exponential functions using the Fast Fourier Transform, J. Schlesinger . . . **106** (1973) 503
simple system producing a 450 kV pulse with 1 ns rise time, K. Eggert . . . **106** (1973) 509
rget chamber for use with radiative transition reactions studies, T. H. Hsu, P. K. Tseng, E. K. Lin and Y. C. Liu . . . **106** (1973) 513
me remarks on the Nelkin model for neutron scattering in water, M. I. Marković . . . **106** (1973) 519
n explosively actuated reaction vessel for gas injection and high vacuum applications in pulsed energy experiments (*Letter to the Editor*), A. W. Lynch, R. T. Meyer and J. M. Freese . . . **106** (1973) 605
scontinuities in histogram scale transformation (*Letter to the Editor*), M. Salomon . . . **106** (1973) 609
eutron mirage formation (*Letter to the Editor*), J. C. Bates . . . **106** (1973) 611
low energy positron spectrometer, J. R. Patrick, A. S. Rupaal and L. E. Spanel . . . **107** (1973) 1
yesian statistics applied to the optimal estimation of background in routine nuclear counting procedures, D. E. Raeside . . . **107** (1973) 5
ort half-life measurements using a pair of semiconductor detectors, R. J. Bishop . . . **107** (1973) 9
ermal neutron flux measurement at very high temperature using iridium, N. Lavi . . . **107** (1973) 13
ttern Recognition Processor and its application to straight line reconstruction of spark chamber data, Julius Solomon and Thomas A. Nunamaker . . . **107** (1973) 15
e efficiency of vertically bent neutron monochromators, R. Currat . . . **107** (1973) 21
ffusion of uranium in polyethylene determined by fission track detectors, Ching-Shen Su . . . **107** (1973) 29
ld neutron monochromatization by means of total reflection, W. Fiala and H. L. Foote, Jr. . . . **107** (1973) 33
detailed evaluation of neutron mirror monochromatizing systems, W. Fiala and P. P. Delsanto . . . **107** (1973) 37
ean excitation energies of several compounds and mixtures, L. E. Porter and C. L. Shepard . . . **107** (1973) 45
gas jet transport system for the radioactive products of fast-neutron induced fission, H. Dautet, S. Gujrathi, W. J. Wiesehahn, J. M. D'Auria and B. D. Pate . . . **107** (1973) 49
s fokussierende Kristallspektrometer der Universität Fribourg, O. Piller, W. Beer und J. Kern . . . **107** (1973) 61
egevorrichtungen für fokussierende Kristallspektrometer, W. Beer, J. Kern und O. Piller . . . **107** (1973) 79
ve target performances in coherent production experiment, G. Bellini, M. di Corato, P. F. Manfredi and G. Vegni . . . **107** (1973) 85
permanent beta-ray band-spectrograph with 75 cm maximum radius, F. Illés, D. Berényi and J. Schadek . . . **107** (1973) 93
gh proton polarization in 1,2-propanediol at ^{3}He temperatures, W. de Boer . . . **107** (1973) 99
high resolution lead glass Cherenkov gamma-spectrometer, R. G. Astvatsaturov, V. I. Ivanov, M. N. Khachaturyan, V. A. Kramarenko, B. A. Kulakov, A. I. Malakhov and G. L. Melkumov . . . **107** (1973) 105
absolute silicon-dose calorimeter, K. M. Murray . . . **107** (1973) 109
apparatus for scanning of bubble chamber photographs, P. S. Gill, J. Prasad and P. K. Garg . . . **107** (1973) 115
e neutron energy distribution from Am-Be determined by a time of flight technique, J. E. Lutkin and G. W. McBeth . . . **107** (1973) 165
sai d'interprétation théorique des caractéristiques de la structure interdigitale, A. Chabert et G. Voisin . . . **107** (1973) 173
plication of the ^{90}Y^{m}-decay for peak efficiency calibration of Ge(Li)-detectors (*Letter to the Editor*), A. Hanser **107** (1973) 187
oix d'un système de transfert adaptable à un générateur de neutrons pour l'analyse séquentielle par activation (*Letter to the Editor*), J. Perdijon . . . **107** (1973) 189
ror estimates in high count rate experiments (*Letter to the Editor*), B. L. Chrisman and J. L. Groves . . . **107** (1973) 193
simple monitor for beam-foil spectroscopy (*Letter to the Editor*), G. W. Carriveau . . . **107** (1973) 195
Yb and ^{110}Ag^{m} as efficiency calibration standards for Ge(Li) detectors (*Letter to the Editor*), N. Lavi . . . **107** (1973) 197
lculation of the self-absorption of gamma rays in a disc shaped source (*Letter to the Editor*), Hiroshi Gotoh . **107** (1973) 199
new method of determining the Compton edge in liquid scintillators (*Letter to the Editor*), G. C. Chikkur and N. Umakantha . . . **107** (1973) 201
lculated photopeak efficiencies of NaI(Tl)-scintillation detectors with self-absorption in the source, R. Rieppo . **107** (1973) 209
timing resolution with thin scintillators, F. Calligaris, C. Cernigoi, P. Ciuti and R. Giacomich . . . **107** (1973) 213
method to determine the γ-ray attenuation coefficients, S. Gopal and B. Sanjeevaiah . . . **107** (1973) 221
beta- and Compton-suppressed spectrometer for internal conversion study, M. Ishii . . . **107** (1973) 227
e preparation of tantalum nitride targets by reactive sputtering, M. R. Wormald, B. Y. Underwood and K. W. Allen . . . **107** (1973) 233
high quality electron and pion beam for NAL, Z. G. T. Guiragossián and R. E. Rand . . . **107** (1973) 237
thod of fast change of dopants for ion implantation, H. Boroffka, E. F. Krimmel and H. Runge . . . **107** (1973) 251

An analytic method for the least-squares fitting of single-line thick-absorber Mössbauer spectra, B. T. Cleveland	**107** (1973)
EFFI – Ein Monte-Carlo-Programm zur Berechnung der Nachweiseffektivität eines Neutronendetektors mit organischem Szintillator, D. Hermsdorf, K. Pasieka und D. Seeliger	**107** (1973)
A conceptual study of a 300 MeV pion channel for TRIUMF, P. A. Reeve	**107** (1973
Achromatic method for measuring the 654 MeV mean proton energy by using Vavilov–Cherenkov radiation, V. P. Zrelov, P. Pavlovič and P. Šulek	**107** (1973)
Numerical analysis of Mössbauer spectra: Correction for thick absorbers, A. J. Stone	**107** (1973)
Sur les équations décrivant un plasma quasi-neutre d'ions lourds confiné dans un champ magnétique, T. Tauth	**107** (1973)
A versatile sector-focusing magnetic β-spectrometer, J. Kayser	**107** (1973)
A fast neutron polarimeter with carbon analyzer and pulse-shape discrimination, Jesse E. Sherwood, Floyd D. McDaniel and M. T. McEllistrem	**107** (1973)
Prompt timing response in X-ray, heavy ion experiments using NaI(Tl) and surface-barrier detectors, R. A. Lerche, B. W. Wehring and M. E. Wyman	**107** (1973)
Interference effects in cross sections calculated by photon difference methods, H. Dahmen, F. Dreyer, D. M. Crawford and H. H. Thies	**107** (1973)
A silicon rubber scintillation compound for complex geometry radiation detectors, A. Bussini, A. J. Dean, R. di Raffaele, G. Gerardi and A. Igiuni	**107** (1973)
Use of magnetostrictive wire for image plane digitizing of bubble chamber pictures, D. Bogert, M. Johnson, P. Lucas, T. Ludlam, J. Sandweiss, J. Slaughter and W. Willis	**107** (1973)
A control system for cascade processors, M. S. Khan	**107** (1973)
Comment on "Dead-time losses in a buffered data recording system" (*Letter to the Editor*), R. E. Bell	**107** (1973)
Direct tritium production measurement in irradiated lithium (*Letter to the Editor*), R. Dierckx	**107** (1973)
First physics run with a track sensitive target (*Letter to the Editor*), T. G. Coleman, C. M. Fisher, E. W. Fitzharris, J. H. Foster, J. G. V. Guy, P. R. Williams, H. Leutz and H. Wenninger	**107** (1973)
Line focused beam for high voltage accelerators (*Letter to the Editor*), I. Kiss, E. Koltay, A. Szalay and E. V. Shpak	**107** (1973)
An improved version of the methane cold neutron source (*Letter to the Editor*), V. Dimic	**107** (1973)
The experimental identification of individual particles by the observation of transition radiation in the X-ray region, F. Harris, T. Katsura, S. Parker, V. Z. Peterson, R. W. Ellsworth, G. B. Yodh, W. W. M. Allison, C. B. Brooks, J. H. Cobb and J. H. Mulvey	**107** (1973)
Isotope separator implantation of radioactive ions for hyperfine interaction studies, H. Bernas and J. Obert	**107** (1973)
Composite focusing neutron monochromator system, A Boeuf and F. Rustichelli	**107** (1973)
Conditions d'apparition des instabilités de faisceau dans un accélérateur supraconducteur à cavité unique TM$_{010}$, A. Septier et M. Boussoukaya	**107** (1973)
Errors in momentum and direction of bubble chamber tracks taking into account energy loss, W. Matt	**107** (1973)
Combination magnetic-Si(Li), swept-current electron spectrometer for on-line internal conversion spectroscopy, F. T. Avignone, III, J. E. Pinkerton and J. H. Trueblood	**107** (1973)
Gaussian approximation to the transmission function of a triple-axis neutron spectrometer, G. Quittner and G. Ernst	**107** (1973)
Monte Carlo calculation of clad NaI(Tl) scintillation crystal response to gamma photons, J. J. Steyn, R. Huang and D. W. Harris	**107** (1973)
The technology and chemistry of heavy ion sources, J. H. Freeman and G. Sidenius	**107** (1973)
Mass distribution of fission fragments from ^{235}U(n$_{th}$,f) by simultaneous measurements of velocity and energy, F. Shiraishi and M. Hosoe	**107** (1973)
A system of programs for the reduction of data from a time-of-flight spectrometer, J. R. D. Copley, D. L. Price and J. M. Rowe	**107** (1973)
The Utah neutrino detector Cherenkov system, G. L. Cassiday, D. E. Groom and M. O. Larson	**107** (1973)
Field correction windings for iron magnets, Klaus Halbach	**107** (1973)
Some eddy current effects in solid core magnets, Klaus Halbach	**107** (1973)
Design considerations of three- and four-stage aperiodic rf mass spectrometer with improved performance characteristics, H. B. Lall	**107** (1973)
An electrostatic mirror spectrometer with coaxial electrodes for multi-detector operation, B. Wannberg	**107** (1973)
A Monte Carlo method for fitting ^{57}Fe Mössbauer spectra, G. R. Davidson	**107** (1973)
Calculations on the ion-beam transport system of the tandem accelerator at Uppsala, M. Olsmats and B. Wannberg	**107** (1973)
A large area high efficiency γ-ray detector with good time and space resolution, R. J. Abrams, A. S. Carroll, T. F. Kycia, K. K. Li, J. Menes, D. N. Michael, P. M. Mockett and R. Rubinstein	**107** (1973)
Photofractions from experimental relative photopeak efficiencies of a 3″ × 3″ CsI(Tl) crystal, M. Ifran and R. D. G. Prasad	**107** (1973)
^{108}Ag^{m} as a calibrating source for the absolute efficiency of Ge(Li) detectors (*Letter to the Editor*), B. K. das Mahapatra and P. Mukherjee	**107** (1973)
A peak locating method with statistically defined sensitivity (*Letter to the Editor*), J. Kajfosz and Z. Kosina	**107** (1973)
Erhöhung des Bildkontrastes bei Plastikdetektoren mit Fluoreszenzfarbstoffen (*Letter to the Editor*), D. Fink	**107** (1973)

etection efficiency of annular geometry used in fission isomer studies, M. N. Namboodiri, F. H. Ruddy and John M. Alexander . . . **108** (1973) 1

n the reduction of multiple scattering by a sandwich structure of the sample in neutron scattering experiments, H. Kalli . . . **108** (1973) 11

he measurement of the absolute transport efficiency for recoils from heavy ion reactions with He-jet systems, Wolf-D. Schmidt-Ott, R. L. Mlekodaj and C. A. Bingham . . . **108** (1973) 13

me properties of MWPC using electronegative gases, and their efficiency of detection for normal and abnormal particles (quarks), M. Breidenbach, F. Sauli and R. Tirler . . . **108** (1973) 23

estoration to transparency of radiation-blackened pyrex, N. K. Sherman . . . **108** (1973) 29

he Brookhaven Double Vee Magnetic Spectrometer, K. J. Foley, W. A. Love, S. Ozaki, E. D. Platner, A. C. Saulys, E. H. Willen and S. J. Lindenbaum . . . **108** (1973) 33

method of measuring alpha-decays in the nanosecond range, T. Nomura and K. Hiruta . . . **108** (1973) 61

technique for measuring hydrogen concentration versus depth in solid samples, D. A. Leich and T. A. Tombrello . . . **108** (1973) 67

n particle track evolution in dielectric track detectors and charge identification through track radius measurement, H. G. Paretzke, E. V. Benton and R. P. Henke . . . **108** (1973) 73

he response of coaxial detectors to anisotropic fluxes, P. Valot . . . **108** (1973) 81

ormulation of a counting criterion for radiotracer experiments using two radionuclides, P. T. Davies . . . **108** (1973) 87

igh-purity germanium γ-ray spectrometers with Al regrowth p^{+} contacts, V. Marrello, T. A. McMath, J. W. Mayer and I. L. Fowler . . . **108** (1973) 93

etermination of hyperfine interaction parameters from unresolved Mössbauer spectra, G. Hembree and D. C. Price . . . **108** (1973) 99

eutron collimators with plates of self-contracting foils, H. Meister and B. Weckermann . . . **108** (1973) 107

easuring system of slowly varying low field for gradient magnets (*Letter to the Editor*), K. Endo and H. Sasaki . . . **108** (1973) 193

tensity calibration of medium energy neutron generators by the ^{115}In(n,n′)^{115}In^{m} reaction (*Letter to the Editor*), B. Rosner and E. Ben-Hagay . . . **108** (1973) 197

fects of photon collimators on the spectral distribution of bremsstrahlung radiation between 20 and 35 MeV (*Letter to the Editor*), R. Nath, F. W. K. Firk and H. L. Schultz . . . **108** (1973) 199

ote on the expansion of cylindrical beams due to space-charge effects with uniform acceleration (*Letter to the Editor*), Mirela Nemes . . . **108** (1973) 201

he CERN intersecting storage rings, Kjell Johnsen . . . **108** (1973) 205

high-resolution magnetic beta-ray spectrometer adapted for on-line work, A Johansson, B. Nyman, B. Svahn, O. Bergman and H. Pettersson . . . **108** (1973) 225

chniques for fast evaluation of Ge(Li)-detector gamma-ray spectra with small computers, B. Nyman . . . **108** (1973) 237

new method for digital power spectrum analysis, Y. Murata, S. Izumi and T. Sanda . . . **108** (1973) 243

simple time-to-amplitude converter and a quadrupole coincidence unit based on integrated-circuits for positron annihilation studies, J. B. Wang, S. Y. Chuang, S. J. Tao and A. Ogata . . . **108** (1973) 253

ccelerator evaluation of a spark-chamber experiment for gamma-ray astronomy, G. F. Bignami, J. Paul, E. Pfeffermann, B. N. Swanenburg, A. Scheepmaker, W. H. Voges and R. D. Wills . . . **108** (1973) 257

high efficiency scintillator coincidence system for absolute determination of neutron flux density, Jan Collén . . . **108** (1973) 269

se of position sensitive detectors at energies below 1 MeV; Application to a fast determination of the pitch angle distribution of protons inside the magnetosphere, Jaqueline Etcheto, Jean Etcheto, Roger Gendrin and Bertrand de la Porte des Vaux . . . **108** (1973) 271

amma-gamma angular correlation apparatus with on-line irradiation system for the study of short-lived isotopes, K. Okano, Y. Kawase and T. Hayashi . . . **108** (1973) 279

ash tube hodoscopes for particle density measurements, M. Samorski . . . **108** (1973) 285

^{3}He-^{4}He dilution refrigerator cryostat system for nuclear orientation experiments, A. J. Becker, H. E. Henrikson and D. C. Cook . . . **108** (1973) 291

he investigation of the 0.15 s phosphorescent component of NaI(Tl) and its application in scintillation counting, S. Koički, A. Koički and V. Ajdačić . . . **108** (1973) 297

terpretation of the results of some neutron spectrum elaboration procedures, Biagio Arcipiani and Marzio Marseguerra . . . **108** (1973) 301

technique for correction of pulse heights from thick silicon particle detectors, K. J. F. Allen and A. G. Klein . . . **108** (1973) 309

comparison of gamma-ray resonance scattering techniques for borehole analysis, B. D. Sowerby . . . **108** (1973) 317

ependence of the energy per ion pair on the photon energy below 6 keV in various gases, Dušan Srdoč . . . **108** (1973) 327

simple algorithm for background corrections to γ-γ angular correlation measurements, J. de Raedt . . . **108** (1973) 333

le traps in germanium crystals, R. D. Westbrook . . . **108** (1973) 335

mma-ray energies of ^{192}Ir (*Letter to the Editor*), Hikaru Inoue, Yasukazu Yoshizawa and Tsuneo Morii . . . **108** (1973) 385

simple beam charge monitor for neutron generators (*Letter to the Editor*), H. M. Loebenstein and Y. Gazit . . . **108** (1973) 387

comparative study of alpha and X-ray induced X-ray emission for elemental analysis (*Letter to the Editor*), Scott K. Perry and F. P. Brady . . . **108** (1973) 389

Observation of the blocking effect after $^{6}\mathrm{Li}(n,t)^{4}\mathrm{He}$ reactions with thermal neutrons (*Letter to the Editor*), J. P. Biersack and G. Fink . . . **108** (1973)

Temperature coefficients of a NE 213 neutron spectrometer (*Letter to the Editor*), M. Weinert . . . **108** (1973)

Depth selection by means of scattered electrons; A method to determine electron line profiles, U. Bäverstam, C. Bohm, B. Ringström and T. Ekdahl . . . **108** (1973)

Electron calibration of a high-energy cosmic ray detector, Carol Jo Crannell, Roger A. Gearhart, Frank A. Hagen, W. V. Jones, Richard J. Kurz, Jonathan F. Ormes, Robert D. Price, Robert F. Silverberg and George M. Simnett . . . **108** (1973)

A device to identify muons at high energies, M. H. Bourquin and D. H. Saxon . . . **108** (1973)

Measurements of radioactive aerosols using thin plastic scintillators, R. E. Larson . . . **108** (1973)

$(\beta\text{-}\gamma)$ chamber for nuclide determination in off-gas samples, Peter Filss . . . **108** (1973)

Chambre à étincelles en radiofréquences, G. Jacques Sayag . . . **108** (1973)

A Camac module to help event recognition in high energy physics, F. Bourgeois and A. Corre . . . **108** (1973)

Data acquisition system for two-dimensional measurement of heavy ion reactions, H.-D. Helb, H. G. Faltin, T. Schlurick and H. Voit . . . **108** (1973)

Construction and use of a three Ge(Li) Compton polarimeter, P. A. Butler, P. E. Carr, L. L. Gadeken, A. N. James, P. J. Nolan, J. F. Sharpey-Schafer, P. J. Twin and D. A. Viggars . . . **108** (1973)

A sample changer for automatic irradiation apparatus, K. Okano and Y. Kawase . . . **108** (1973)

A detection system with a large liquid scintillation counter for high energy neutron studies with neutron gamma discrimination, Hiroshi Nakamura, Fernand Reide and Toshiko Yuasa . . . **108** (1973)

A Compton spectrometer for the energy range between 10 and 300 MeV and its application to photon flux and photon absorption measurements, J. Ahrens, H. Borchert, A. Ziegler and B. Ziegler . . . **108** (1973)

A mass-selecting apparatus to measure the energy loss of fission fragments in gases, M. Forte, A. Bertin, M. Bruno, G. Vannini and A. Vitale . . . **108** (1973)

A temperature compensated single channel analyzer for monitoring purposes, R. Hadis . . . **108** (1973)

A high-resolution total absorption spectrometer for simultaneous detection of several high-energy γ-rays, M. Holder, E. Radermacher, A. Staude, P. Darriulat, J. Deutsch, J. Pilcher, C. Rubbia, K. Tittel, C. Grosso-Pilcher, M. Sciré and A. Villari . . . **108** (1973)

Application of the ALICE flying spot digitizing system to oscilloscope and spark chamber data, D. Hodges, J. Lindquist, B. Nelson, E. C. Swallow and D. M. Schwartz . . . **108** (1973)

A computer system for multiparameter measurements in nuclear physics, L. Harms-Ringdahl and J. Sztarkier . **108** (1973)

Target-holder and vacuum chamber for cyclotron isotope production, E. Thain . . . **108** (1973)

Detection of 10- to 100-MeV photons with lead-glass Cherenkov counters, D. I. Sober, M. Arman, D. J. Blasberg, R. P. Haddock, K. C. Leung and B. M. K. Nefkens . . . **108** (1973)

The polarization of neutrons from the $^{2}\mathrm{H}(d,n)^{3}\mathrm{He}$ reaction for deuteron energies less than 1 MeV, H. Davie and R. B. Galloway . . . **108** (1973)

Liquid scintillation solutions for pulse-shape discrimination, I. B. Berlman and O. J. Steingraber . . . **108** (1973)

Efficient, low-cost gamma-ray spectrometry for $^{161}\mathrm{Dy}$ (26 keV) Mössbauer studies (*Letter to the Editor*), D. W. Forester and W. A. Ferrando . . . **108** (1973)

A figure of merit for gamma-ray polarimeters (*Letter to the Editor*), B. A. Logan, R. T. Jones and A. Ljubičić . **108** (1973)

A simple technique for crystal alignment in channelling experiments (*Letter to the Editor*), P. B. Price, M. J. Hollis and C. S. Newton . . . **108** (1973)

On the use of accelerometers in Mössbauer spectroscopy, R. Wäppling and K. Pernestål . . . **109** (1973)

Line shapes of Doppler shifted γ-rays from coincidence and singles spectra in measurements of nuclear lifetimes, E. J. Hoffman, D. M. van Patter, D. G. Sarantites and J. H. Barker . . . **109** (1973)

Design and performance of a new magnetic spectrograph for accurate energy measurements, J. D. Goss, A. A. Rollefson and C. P. Browne . . . **109** (1973)

Thermoluminescence in concrete measurements for determining gamma-ray transmission curve and build-up factors, Luciano de Franceschi, Alberto Gentili and Vittorio Sabbatini . . . **109** (1973)

An experimental study of photon-initiated showers in lead between 150 and 450 MeV, Daniel I. Sober, Roy P. Haddock, B. M. K. Nefkens and Bryce L. Schrock . . . **109** (1973)

Techniques for measurement of spin-$\frac{1}{2}$ and spin-1 polarization analyzing tensors, Gerald G. Ohlsen and P. W. Keaton, Jr. . . . **109** (1973)

Techniques for polarization transfer coefficient determination, G. C. Salzman, C. K. Mitchell and G. G. Ohlsen **109** (1973)

A technique for investigating continuous photon distributions, R. T. Jones, A. Ljubičić and B. A. Logan . . . **109** (1973)

A high resolution, large volume Ge(Li)-NaI(Tl) Compton-suppression spectrometer, J. Konijn, P. F. A. Goudsmit and E. W. A. Lingeman . . . **109** (1973)

Numerical solution of the electron diffusion equation, R. A. Early . . . **109** (1973)

Particle identification with a small Ge(Li) detector, L. Karlsson . . . **109** (1973)

A new approach to the analysis of the Doppler shift attenuation measurements, M. Kregar, P. Kump, M. Pavšič and M. Vakselj . . . **109** (1973)

Calculation of the Vavilov distribution allowing for electron escape from the absorber, G. D. Badhwar . . . **109** (1973)

ie standardization of a circular disc source of β^+-emitters by the β^+-annihilation γ–γ coincidence method, T. Nakajima . . . **109** (1973) 125
fast square pulsing and klystron bunching count down system for a 3 MeV Van de Graaff, H. J. Fraser and A. I. M. Ritchie . . . **109** (1973) 137
uipment and techniques for the study of the decay of $^{235}U^m$, M. Nève de Mévergnies . . . **109** (1973) 145
ude détaillée d'un générateur d'impulsions rapides de très haute tension, G. Gissinger, S. Jacquey, G. Binder, F. M. Schmitt et G. Sutter . . . **109** (1973) 157
heavy ion identification scheme based on semiempirical range-energy calculations, E. T. Chulick, J. B. Natowitz and C. Schnatterly . . . **109** (1973) 171
ie development and application of a beta-gamma-gamma multidimensional spectrometer, N. A. Wogman and R. L. Brodzinski . . . **109** (1973) 277
eutron spectrum measurement with fissile detectors, M. Nimis, V. Sangiust, M. Terrani and S. Terrani . . . **109** (1973) 285
esponse of thin film scintillator detector to light and heavy ions, L. Muga and G. Griffith . . . **109** (1973) 289
multaneous storage of spectra and additional signals by a multichannel spectrometer, W. Görner and A. Rost . **109** (1973) 297
ransmission and shifts in time-of-flight spectrometry of low energy ions using an electrostatic particle guide, R. Igersheim, J. Ch. Abbe, J. M. Paulus and S. Amiel . . . **109** (1973) 301
n the temperature dependence of the output current from a gamma-compensated ionization chamber, F. Fukuda and S. Okabe . . . **109** (1973) 305
n experimental determination of the transmission function of a neutron chopper, R. A. Brown and D. K. Ross **109** (1973) 313
alculation of the relative counting rate of a well-type sodium iodide scintillation crystal in isotopic neutron source activation analysis, B. Lindfors . . . **109** (1973) 317
otal cross section measurements by X-ray detection of electron-capture residual activity, C. N. Chang, J. J. Kent, J. F. Morgan and S. L. Blatt . . . **109** (1973) 327
esure des parcours de recul de noyaux émetteurs alpha produits par réactions nucléaires d'après le déplacement en énergie du spectre; Application aux réactions de transfert induites par ions lourds, R. Bimbot et D. Gardes . . **109** (1973) 333
ssion fragment energy spectrum determination with solid state nuclear track detectors, H. A. Khan and S. A. Durrani . . . **109** (1973) 341
alculation of the response function of semiconductor proton recoil counters with a radiator of finite thickness, Hiroshi Gotoh, Hideyuki Yagi and Yasuo Harayama . . . **109** (1973) 349
oincidence spectroscopy of fission fragments via mica track detectors, F. Micheal Kiely and Brian D. Pate . . **109** (1973) 355
ortable X-ray fluorescence single element analyzer (*Letter to the Editor*), J. H. McCrary and C. M. Edmonds . . **109** (1973) 389
orrection to electron beam monitor papers (*Letter to the Editor*), J. S. Pruitt . . . **109** (1973) 393
alf-life measurements with unequal time bins (*Letter to the Editor*), James E. Draper . . . **109** (1973) 397
new technique for high-resolution charged-particle mass identification (*Letter to the Editor*), G. W. Hoffmann, E. Pipitone and J. R. White . . . **109** (1973) 399
arget backings for charged particle induced X-ray fluorescence analysis, A. W. Herman, L. A. McNelles and J. L. Campbell . . . **109** (1973) 429
esign of a high-temperature neutron irradiation container, Darrell C. Fee and Samuel S. Markowitz **109** (1973) 445
ie time stretcher, Richard E. H. Jones and Anthony J. Wynroe . . . **109** (1973) 461
facility for fast neutron time of flight experiments, G. I. Crawford, S. J. Hall, J. McKeown, J. D. Kellie and D. B. C. B. Syme . . . **109** (1973) 479
easurements of neutron reaction cross sections using a liquid scintillation spectrometer, Hiroaki Ishikawa . . . **109** (1973) 493
ural and multiple mott scattering by Monte Carlo method, V. Hnizdo . . . **109** (1973) 503
UTIPIE – A computer program to analyze gamma-ray spectra, W. Teoh . . . **109** (1973) 509
andard spectrum method for the analysis of gamma-ray spectra from semiconductor detectors, Kanji Tasaka . **109** (1973) 547
esolution in experiments of angular correlation of annihilation photons, G. Poletti and F. Rossitto . . . **109** (1973) 557
rotating target holder for low melting point nuclear targets, E. H. Woodburn, M. Barrette, J. L. Foster, Jr. and G. Lamoureux . . . **109** (1973) 561
pproximate stopping power law of electrons and positrons, R. K. Batra and M. L. Sehgal . . . **109** (1973) 565
ie preparation and utilisation of mercury targets for measurements with heavy ion beams, H. A. Doubt, J. B. Fechner, K. Hagemeyer and K.-H. Speidel . . . **109** (1973) 571
fective decorrelation of errors of photon difference data, D. M. Crawford, R. Koch and H. H. Thies **109** (1973) 573
cryogenic system for low-temperature and clean-environment channeling measurements, J. Bøttiger, J. A. Davies, J. Lori and J. L. Whitton . . . **109** (1973) 579
eduction of neutron-induced background in NaI γ-ray spectra, E. M. Diener and C. C. Chang . . . **109** (1973) 585
computer program to control the electronic acquisition of digitized information in nuclear experiments, "ELAINE", D. I. Lowenstein . . . **109** (1973) 589
etermination of mixing ratios from the gamma–gamma directional correlations in a triple cascade (*Letter to the Editor*), G. Y. Chow and M. L. Wiedenbeck . . . **109** (1973) 597
npty target subtractions and radiative corrections in electron scattering experiments (*Letter to the Editor*), Arie Bodek **109** (1973) 603
ass resolution in fission-fragment double-kinetic-energy measurements (*Letter to the Editor*), E. M. Bohn, R. A. Lerche, A. B. Long and B. W. Wehring . . . **109** (1973) 605
n nouveau mode de représentation des pics de détection d'un détecteur Ge(Li) (*Letter to the Editor*), J. Libert . . **109** (1973) 609

The application of a gas jet recoil transport system to the product of fast neutron reactions (*Letter to the Editor*), W. J. Wiesehahn, H. Dautet, J. M. D'Auria and B. C. Pate **109** (1973)

Instruments and Methods in Space Radiation Research

A large area detector for neutrons between 2 and 100 MeV, R. T. Grannan, R. Koga, W. A. Millard, A. M. Preszler, G. M. Simnett and R. S. White **103** (1972)
A satellite experiment to measure the intensity and energy spectrum of gamma rays from solar flares in the range 50–500 MeV, G. F. Bignami, C. J. Bland, O. Citterio, A. J. Dean and P. Inzani **103** (1972)
A telescope for soft gamma ray astronomy, V. Schönfelder, A. Hirner and K. Schneider **107** (1973)
The detection of low energy cosmic X-rays, R. J. Francey, G. A. Baird, D. W. Green, B. G. Wilson and W. H. Woollam **107** (1973)
Experimental gamma ray response function for the OSO-7 spacecraft, P. Higbie, D. Forrest, I. Gleske, E. Chupp and D. Burtis **108** (1973)
The muon scattering distribution, J. N. Crookes and B. C. Rastin **109** (1973)
Energy calibration of a cosmic ray ionization spectrometer, Haven Whiteside, Carol Jo Crannell, Hall Crannell, Jonathan F. Ormes, Michael J. Ryan and W. Vernon Jones **109** (1973)

Miscellaneous

Solid angle subtended by a circular cylinder, K. Verghese, R. P. Gardner and R. M. Felder **101** (1972)
Electrostatic prism spectrometer with quadrupole lenses, I. A. Petrov, E. V. Shpak and S. Ya. Yavor **101** (1972)
Three-dimensional density reconstruction from a series of two-dimensional projections, M. Goitein **101** (1972)
Étude de lieu de formation des ions dans une source Penning en fonction de la forme du champ magnétique par la méthode de Monte-Carlo, G. Hadinger, G. Hadinger-Espi, T. Tauth, J. Illgen et W. Jacoby **102** (1972)
Measurements of inhomogeneities of magnetic fields in a model beam-analyzing magnet, Y. Ōkuma, K. Yagi, I. Kumabe and K. Matsuda **102** (1972)
Third order transfer matrices for the fringing field of magnetic and electrostatic quadrupole lenses, H. Matsuda and H. Wollnik **103** (1972)
Sur les phénomènes magnéto-, sparko- et thermostrictifs dans les fils minces, M. R. E. Bichara et K. M. Jauch . **103** (1972)
Un contrôleur de système Camac, J. M. Meyer, M. Perrin, D. Mlynek, M. Lehmann et G. Metzger **103** (1972)
Temperature sensing by neutron transmission (*Letter to the Editor*), A. A. Harms and W. J. Garland **104** (1972)
Environmental monitoring with TLD (*Letter to the Editor*), K. Becker **104** (1972)
Fast neutron personnel monitoring by fission fragment registration from ^{237}Np (*Letter to the Editor*), M. Sohrabi and K. Becker **104** (1972)
Application of the fission track registration technique in the estimation of fissile materials: ^{235}U-contents in natural and depleted uranium samples and total uranium in solutions, R. H. Iyer, M. L. Sagu, R. Sampathkumar and N. K. Chaudhuri **109** (1973)

Nuclear Electronics

A pulse delay generator, J. Bialkowski and W. Karnicki **101** (1972)
A high-voltage pulse generator for spark chambers in space, A. Baldwin, T. Lund and R. Madey **101** (1972)
An LSI most-memory in digital data of bubble chamber photograms transmission system, G. Zecchin **101** (1972)
A technique for determining bias settings for organic scintillators, H. H. Knox and T. G. Miller **101** (1972)
Fast dc amplifier with autoranging over six decades, O. Lasser and C. M. Fleck **101** (1972)
The source-follower linearization of a diode pump integrator, D. I. Veselinović, D. Z. Danilović and M. V. Šobajić **101** (1972)
Méthode de calcul du régime transitoire de la variance d'un signal aléatoire en sortie d'un filtre linéaire affecté par une commutation, J. Freycenon, Le Hang To et J. Berbezier **101** (1972)
A P.H.A. test method utilizing a pseudorandom noise signal, N. Abbattista, A. de Giorgio, D. Marino and V. L. Plantamura **101** (1972)
A circuit for processing signals from multiwire proportional chambers constructed in thick film hybrid form, J. C. Tarlé and H. Verweij **102** (1972)
A general ADC/computer interface, W. R. Moyer and J. R. Tatarczuk **102** (1972)
A versatile anticoincidence gate, V. E. Church **102** (1972)
A new circuit for a dead time compensating timer, J. Bartošek, G. Windels and J. Hoste **103** (1972)
Design and development of a random pulse sampler, M. S. Khan and R. L. Vallee **103** (1972)
Fast recovery, high input impedance tunnel diode comparator (*Letter to the Editor*), P. Ghelfan **103** (1972)
Pulse height analyzer-card punch interface (*Letter to the Editor*), H. E. Hall, Jr. **103** (1972)
On optimum chopping (*Letter to the Editor*), J. B. Pearce **103** (1972)
A magnetic tape interface for Nuclear Data 130 multichannel analyzer and Kennedy 1400 tape transport, J. M. Frame and H. L. van Nice **104** (1972)

he selective triggering system with proportional chambers for the small angle π-p scattering experiment at 40 and 50 GeV, Z. Guzik, Z. Hajduk, R. Krasowski, V. D. Peshekhonov, E. Popielska, W. Popielski, E. Silaev, E. N. Tsyganov, M. Turula and Yu. V. Zanevsky **104** (1972) 337
errite core read out with software decoding, J. McKeown **104** (1972) 433
two-computer used on-line to a wire chamber spectrometer: Description and operational experience, L. G. Greeniaus, J. V. Jovanovich, J. McKeown, D. Reimer and J. C. Thompson **104** (1972) 437
emotely controlled time-dividing spectrum stabilization, Y. Kawarasaki **105** (1972) 37
hotomultipliers output pulse shape, G. Bianchetti and B. Righini **105** (1972) 45
iming system for high resolution time spectroscopy, J. Bialkowski and M. Moszyński **105** (1972) 51
stable pulsed light source using low-cost light-emitting diodes, J. H. Thorngate and P. T. Perdue **105** (1972) 57
device for automatical recording of delayed coincidence curves, B. J. Baldin, Z. Cisek, A. Kościuk, A. I. Ronzhin and M. Szawłowski **105** (1972) 157
n a digitally stabilized timing system, L. Karlsson **105** (1972) 349
simple 1024 channel pulse height analyser for nuclear pulse spectroscopy, S. Ragupathy **105** (1972) 357
three-axis magnetometer with digital readout, suitable for balloon borne apparatus, T. R. Sanderson **105** (1972) 371
erminderung der Übersteuerungsempfindlichkeit eines Ge(Li)-Spektrometersystems, K. Huber und H. Bartsch . **105** (1972) 589
method for obtaining programmed beam single shots and pulse trains from a diode gun linear electron accelerator (*Letter to the Editor*), Diana Martin and Mirela Nemes **105** (1972) 605
ast nuclear electronic modules in the CAMAC system, S. G. Basiladze, V. Y. Gvozdev, I. F. Kolpakov, P. K. Manjakov and V. Tlachala **106** (1973) 157
igital pulse generator for nuclear magnetic resonance experiments, A. Sajeva and L. Stanchi **106** (1973) 549
niversal wire detector CAMAC scanner, Thomas A. Nunamaker **106** (1973) 557
igh speed decimal scaler with a centesimal top counting stage, Susumu Inaba and Kazuo Husimi **106** (1973) 563
timing filter amplifier, L. Karlsson **107** (1973) 375
éalisation d'une unité de dialogue CAMAC (*Letter to the Editor*), E. Barrier, J. M. Meyer et G. Metzger . . **107** (1973) 407
simple gain control system for scintillation counting systems in space experiments, I. Arens and B. G. Taylor **108** (1973) 147
n the minimal threshold of pulse-shape discrimination, V. A. Doolin and V. M. Litjaev **108** (1973) 157
digital sine generator for Mössbauer spectrometers, N. Halder and G. M. Kalvius **108** (1973) 161
he use of p-i-n diodes in nuclear electronic circuits, P. Horvath, S. V. Mukhin, S. V. Richvickij, V. Streit and M. Zvada **108** (1973) 357
eam feedback electronics for the SPEAR storage ring, Jean-Louis Pellegrin **108** (1973) 365
eitschaltungen mit COSMOS-Bausteinen, I., F. May und W. Marschik **108** (1973) 375
eitschaltungen mit COSMOS-Bausteinen, II, F. May und W. Marschik **108** (1973) 377
ultichannel delay cable system for CRT display of fast simultaneous signals (*Letter to the Editor*), Atsushi Ogata and Gen'ichi Horikoshi **108** (1973) 615
universal digital routing unit, J. Uyttenhove and J. Demuynck **109** (1973) 195
CD-Addition und Subtraktion mit Binäraddierwerken (*Letter to the Editor*), F. May und W. Marschik **109** (1973) 199
utomatic selection of flux density in a NMR-controlled dc electromagnet, J. R. Starkey **109** (1973) 365
direct-reading arithmetic unit for nondestructive assay of nuclear materials, E. Ray Martin **109** (1973) 439

uclear Methods Applied to Other Fields

evelopment of miniaturized solid state detectors for the measurement of beta and gamma radiation in superficial and deep parts of living tissue, A. Lauber **101** (1972) 545
adioactivity in earth induced by high energy electrons, R. H. Thomas **102** (1972) 149
new radio-tracer technique for the measurement of self-diffusion coefficients of organic liquids in polymers, H. K. Toh, A. R. Ware and R. E. Wetton **103** (1972) 93
omments on intensity estimation for a neutron beam for biological and medical applications (*Letter to the Editor*), J. W. Watson **103** (1972) 421
he reduction of cosmic-ray induced background in proportional counter rocket experiments, B. A. Cooke, R. E. Griffiths and A. F. Janes **106** (1973) 147
ultiwire proportional chambers for biomedical application, S. N. Kaplan, L. Kaufman, V. Perez-Mendez and K. Valentine **106** (1973) 397
omparison of particle and photon excited X-ray fluorescence applied to trace element measurements of environmental samples, J. A. Cooper **106** (1973) 525
n improved scintillation probe for continuous counting of expiratory $^{14}CO_2$-gas, Shigeo Suzuki, Tadao Aoyagi, Eiichi Fujihara, Kyoko Tomono, Mareichi Toyohara, Noboru Tokunaga, Akira Koyano and Akiyo Shigematsu **106** (1973) 539
simple neutron diffractometer for low angle biological studies, A. C. Nunes **108** (1973) 189
iberation of positive ions from silver single crystals under heavy-ion bombardment, R. S. Bhattacharya and S. B. Karmohapatro **109** (1973) 181
diffusion chamber radon dosimeter for use in mine environment, A. L. Frank and E. V. Benton **109** (1973) 537
ow-level detector for alpha contamination monitor in continuously flowing process waste water, M. M. Chiles . . **109** (1973) 541

Letters to the Editor

The detection efficiency and the response function of semiconductor proton recoil counters with axial symmetry to a point neutron source, H. Gotoh and H. Yagi **101** (1972) 3

A spark chamber with improved time resolution, J. Moromisato and D. Garelick **101** (1972) 3

The hybrid chamber: A proportional chamber with gated spark readout, J. Fischer and S. Shibata **101** (1972) 4

Timing walk and time resolution estimated by least-squares fitting, R. A. Lerche, B. W. Wehring and M. E. Wyman **101** (1972) 5

Absolute calibration of a ^{12}C polarimeter for deuterons between 20 and 30 MeV, G. Perrin, Nguyen van Sen, A. Fiore and J. Arvieux **101** (1972) 6

Linear combination of Lorentzian and Gaussian profiles to fit resonance spectra, J. J. Peyre and G. Principi **101** (1972) 6

Characteristics of stripping neon ions with carbon foils, S. T. Thornton, R. H. McKnight and R. C. Ritter **101** (1972) 6

Monte Carlo calculation of the self-absorption of gamma rays in a disc shaped source, B. F. Peterman **101** (1972) 6

Very low background proportional counter for tritium dating, P. Povinec **101** (1972) 6

An improved method for livetime correction in pulse height spectroscopy, G. Hartmann, J. W. Klein and H. Faatz **102** (1972) 3

On the origin of the background counting rate of curved channel multipliers, R. D. Andersen and D. E. Page **102** (1972) 3

A note on the detection of heavy ions by over-biased totally depleted thin surface barrier detectors, J. B. A. England **102** (1972) 3

A surface-barrier beam monitor, W. L. Lakin **102** (1972) 3

Windowless proportional counter for soft X-rays, T. Kifune and N. Kawashima **103** (1972) 1

A ΔE gas ionization chamber for fission fragments, N. N. Ajitanand, S. K. Kataria, S. S. Kapoor and P. N. Rama Rao **103** (1972) 1

Direction correlation coefficients in compound nuclear reactions, J. W. Tepel **103** (1972) 1

Direction correlation coefficients in compound nuclear reactions; A reply, P. W. Green, B. C. Robertson and D. M. Sheppard **103** (1972) 1

Comment on "Digital corrector for multichannel counting of short- and medium-lived nuclides", D. N. Rao, J. L. Glen and D. Taylor **103** (1972) 1

Fast recovery, high input impedance tunnel diode comparator, P. Ghelfan **103** (1972) 4

A simple method for accurate measurements of total internal conversion coefficients, S. Raman **103** (1972) 4

Ion-chamber device as electronic switch in high radiation field, P. P. Chakraborty, S. G. Sahasrabudhe and R. K. Samant **103** (1972) 4

Self-absorption of gamma rays in large cylindrical samples, W. R. Dixon **103** (1972) 4

Goniometer for implantation and channelling experiments, A. Pegoraro and G. Quirci **103** (1972) 4

Comments on intensity estimation for a neutron beam for biological and medical applications, J. W. Watson **103** (1972) 4

Pulse height analyzer-card punch interface, H. E. Hall, Jr. **103** (1972) 4

Analyzing power in Si($\vec{p}$,p) below 15 MeV, R. A. Hardekopf, D. D. Armstrong and P. W. Keaton, Jr. **103** (1972) 4

Neutron irradiation monitor for use with Ge(Li) detectors, R. M. Wilenzick **103** (1972) 4

Correction of light attenuation in large shower counters, W. L. Lakin, E. W. Petraske and W. T. Toner **103** (1972) 4

On optimum chopping, J. B. Pearce **103** (1972) 4

A criterion for the solid angle optimization in the angular correlation measurements, J. Honzátko and J. Kajfosz **103** (1972) 6

Temperature sensing by neutron transmission, A. A. Harms and W. J. Garland **104** (1972) 2

Proposal of a method for 14 MeV neutron high intensity pulse generation, S. Taczanowski **104** (1972) 2

The use of a pileup rejector in quantitative pulse spectrometry, J. Bartošek, J. Mašek, F. Adams and J. Hoste **104** (1972) 2

Automatic focusing of scanning microscopes, B. Goel and R. Eggmann **104** (1972) 2

Calibration of threshold activation detectors with 14 MeV neutrons, P. N. Cooper and S. M. Kabir **104** (1972) 2

Background caused by tritium disintegration in deuterium chambers, H. Yoshiki **104** (1972) 2

Difference between average and most probable energy losses for the Vavilov distribution, B. Sellers and F. A. Hanser **104** (1972) 2

A detector for efficient backscatter Mössbauer effect spectroscopy, B. Keisch **104** (1972) 2

A multiwire proportional counter with integral readout delay line, J. R. Gilland and J. G. Emming **104** (1972) 2

Pulse shape discrimination with NE 211 liquid scintillator, D. B. C. B. Syme and G. I. Crawford **104** (1972) 2

A large volume high purity germanium radiation detector, J. Llacer **104** (1972) 2

A comment on γ-γ directional correlation measurements in even-even nuclei, H. W. Taylor **104** (1972) 4

Production of azimuth-dependent magnetic fields for β-ray spectrometers with iron-free coils, H. Daniel and P. Deimel **104** (1972) 4

Environmental monitoring with TLD, K. Becker **104** (1972) 4

Fast neutron personnel monitoring by fission fragment registration from ^{237}Np, M. Sohrabi and K. Becker **104** (1972) 4

The relation between restricted energy loss and track width in nuclear emulsions, M. Jensen, L. Larsson and R. Rosander **104** (1972) 6

The preparation of ^{241}Am sources by surface adsorption on different backings, M. Bellemare, Y. Lachance and J. C. Roy **104** (1972) 6

iantitative X-ray analysis, A. Pape, J. C. Sens, P. Fintz, A. Gallmann, H. E. Gove, G. Guillaume and D. M. Stupin 105 (1972) 161
ılcul du spectre énergétique des neutrons émis par un massif sous critique à partir d'une mesure de temps de vol, M. Rotival 105 (1972) 163
ecision energy measurements of high energy gamma rays occurring in the decays of ^{46}Sc, ^{82}Br, ^{99}Mo and ^{110}Ag^{m}, P. L. Gardulski and M. L. Wiedenbeck 105 (1972) 169
-beam axial β-ray spectrometer for the measurement of internal conversion electrons, J. M. Picone, J. F. Fitch, J. W. Baker, G. W. Hoffmann and C. F. Moore 105 (1972) 377
iffusion of lithium into germanium at low temperatures, G. H. R. Kegel 105 (1972) 381
iffusion solutions of recoiled non-volatile fission products in solids, A. S. Ong, L. R. Zumwalt and C. H. Fox 105 (1972) 383
kV ion beam accelerator for erosion studies, R. E. Hurley and P. N. Baker 105 (1972) 387
iotomultiplier tube pulses induced by high energy electrons, S. Fukui, K. Watanabe, A. Yamamoto, M. Kasuya and T. Fujii 105 (1972) 391
precise timing method for the determination of short half-lives, L. Nunnelley, B. Boynton and W. D. Loveland 105 (1972) 593
convenient graph paper for depicting the behavior of the moment of inertia of high spin nuclear rotational states, E. der Mateosian 105 (1972) 595
simple device for track counting in nuclear emulsions, R. Malaroda and G. Zecchin 105 (1972) 597
ne schnelle Methode zur Targetdickenbestimmung, K. Ewen und B. Gonsior 105 (1972) 599
ne zerlegbare hochvakuumdichte Hochspannungsdurchführung, H. F. Franke 105 (1972) 601
ɛam profile measuring device and focusing aid, O. C. Kistner 105 (1972) 603
method for obtaining programmed beam single shots and pulse trains from a diode gun linear accelerator, Diana Martin and Mirela Nemes 105 (1972) 605
ılsed beam method at high current accelerators, G. Czapek, B. Hahn, A. Markees, J. Schacher and U. Schryber 105 (1972) 609
pplication of synchrotron radiation for the identification of electrons in high energy beams, W. Busza, M. Chen and D. Luckey 105 (1972) 613
azachstan variable energy isochronous cyclotron, A. A. Arzumanov and L. M. Nemenov 106 (1973) 201
simple Mössbauer resonance counter for surface studies, J. Fenger 106 (1973) 203
nproved delay lines for proportional wire chamber readout, R. Grove, V. Perez-Mendez and J. Sperinde 106 (1973) 407
n absolute synchronization system for Mössbauer spectroscopy, N. H. J. Gangas, N. Gaitanis, A. Kostikas and A. Simopoulos 106 (1973) 409
n explosively actuated reaction vessel for gas injection and high vacuum applications in pulsed energy experiments, A. W. Lynch, R. T. Meyer and J. M. Freese 106 (1973) 605
iscontinuities in histogram scale transformation, M. Salomon 106 (1973) 609
eutron mirage formation, J. C. Bates 106 (1973) 611
ne scintillation chamber: A high efficiency detector insensitive to source displacements, E. Bruninx 106 (1973) 613
ecay constant of CsI(Na) scintillators, A. Yarom, D. Ben-Zeev and D. Inbar 106 (1973) 615
pplication of the ^{90}Y^{m}-decay for peak efficiency calibration of Ge(Li)-detectors, A. Hanser 107 (1973) 187
ioix d'un système de transfert adaptable à un générateur de neutrons pour l'analyse séquentielle par activation, J. Perdijon 107 (1973) 189
rror estimates in high count rate experiments, B. L. Chrisman and J. L. Groves 107 (1973) 193
simple monitor for beam-foil spectroscopy, G. W. Carriveau 107 (1973) 195
^{9}Yb and ^{110}Ag^{m} as efficiency calibration standards for Ge(Li) detectors, N. Lavi 107 (1973) 197
alculation of the self-absorption of gamma rays in a disc shaped source, Hiroshi Gotoh 107 (1973) 199
new method of determining the Compton edge in liquid scintillators, G. C. Chikkur and N. Umakantha 107 (1973) 201
omment on "Dead-time losses in a buffered data recording system", R. E. Bell 107 (1973) 395
irect tritium production measurement in irradiated lithium, R. Dierckx 107 (1973) 397
rst physics run with a track sensitive target, T. G. Coleman, C. M. Fisher, E. W. Fitzharris, J. H. Foster, J. G. V. Guy, P. R. Williams, H. Leutz and H. Wenninger 107 (1973) 399
ne focused beam for high voltage accelerators, I. Kiss, E. Koltay, A. Szalay and E. V. Shpak 107 (1973) 401
n improved version of the methane cold neutron source, V. Dimic 107 (1973) 405
éalisation d'une unité de dialogue CAMAC, E. Barrier, J. M. Meyer et G. Metzger 107 (1973) 407
^{8}Ag^{m} as a calibrating source for the absolute efficiency of Ge(Li) detectors, B. K. das Mahapatra and P. Mukherjee 107 (1973) 611
peak locating method with statistically defined sensitivity, J. Kajfosz and Z. Kosina 107 (1973) 613
höhung des Bildkontrastes bei Plastikdetektoren mit Fluoreszenzfarbstoffen, D. Fink 107 (1973) 615
easuring system of slowly varying low field for gradient magnets, K. Endo and H. Sasaki 108 (1973) 193
tensity calibration of medium energy neutron generators by the ^{115}In(n,n')^{115}In^{m} reaction, B. Rosner and E. Ben-Hagay 108 (1973) 197
fects of photon collimators on the spectral distribution of bremsstrahlung radiation between 20 and 35 MeV, R. Nath, F. W. K. Firk and H. L. Schultz 108 (1973) 199

Note on the expansion of cylindrical beams due to space-charge effects with uniform acceleration, MIRELA NEMES **108** (1973) 2

Background current of the liquid ionization chamber, TAKEYOSHI NAKAYAMA and MINORU KAWANO **108** (1973) 2

Gamma-ray energies of ^{192}Ir, HIKARU INOUE, YASUKAZU YOSHIZAWA and TSUNEO MORII **108** (1973) 3

A simple beam charge monitor for neutron generators, H. M. LOEBEBSTEIN and Y. GAZIT **108** (1973) 3

A comparative study of alpha and X-ray induced X-ray emission for elemental analysis, SCOTT K. PERRY and F. P. BRADY **108** (1973) 3

Observation of the blocking effect after ^{6}Li(n,t)^{4}He reactions with thermal neutrons, J. P. BIERSACK and D. FINK **108** (1973) 3

Temperature coefficients of a NE 213 neutron spectrometer, M. WEINERT **108** (1973) 4

A cryogenic scintillator-photodiode detector for penetrating charged particles, J. E. BATEMAN and F. E. ÖZSAN . . **108** (1973) 4

Efficient, low-cost gamma-ray spectrometry for ^{161}Dy (26 keV) Mössbauer studies, D. W. FORESTER and W. A. FERRANDO **108** (1973) 5

A figure of merit for gamma-ray polarimeters, B. A. LOGAN, R. T. JONES and A. LJUBIČIĆ **108** (1973) 6

A simple technique for crystal alignment in channelling experiments, P. B. PRICE, M. J. HOLLIS and C. S. NEWTON **108** (1973) 6

Improved zero-time detector for heavy ion time-of-flight spectroscopy, E. DIETZ, J. v. CZARNECKI, W. PATSCHER, W. SCHÄFER and R. BASS **108** (1973) 6

Compensation for gain variation with rate in a NaI(Tl) scintillation counter, M. BIRK, Y. EISEN and Z. VAGER . . **108** (1973) 6

Gd-loaded plastic scintillator, J. B. CZIRR **108** (1973) 6

Multichannel delay cable system for CRT display of fast simultaneous signals, ATSUSHI OGATA and GEN'ICHI HORIKOSHI **108** (1973) 6

BCD-Addition und Subtraktion mit Binäraddierwerken, F. MAY und W. MARSCHIK **109** (1973) 1

Portable X-ray fluorescence single element analyzer, J.H. MCCRARY and C. M. EDMONDS **109** (1973) 3

Correction to electron beam monitor papers, J. S. PRUITT **109** (1973) 3

Half-life measurements with unequal time bins, JAMES E. DRAPER **109** (1973) 3

A new technique for high-resolution charged-particle mass identification, G. W. HOFFMANN, E. PIPITONE and J. R. WHITE **109** (1973) 39

Solid-angle correction factors for "five-sided" coaxial Ge(Li) detectors, K. S. KRANE **109** (1973) 40

Absolute field distribution in gaseous proportional counters of box-type geometry, MICHAEL P. R. WALIGÓRSKI . . **109** (1973) 40

Variable detector mounting assembly for silicon surface barrier detectors, U. QUAST and U. NOCKEN **109** (1973) 40

Possibility of using a source of the Bernas-Nier type for negative ion production, J. DENIMAL and C. RICAUD . . . **109** (1973) 40

Determination of mixing ratios from the gamma–gamma directional correlations in a triple cascade, G. Y. CHOW and M. L. WIEDENBECK **109** (1973) 59

The fabrication of radial position sensitive detectors by ion implantation, A. FEUERSTEIN and S. KALBITZER **109** (1973) 60

Empty target subtractions and radiative corrections in electron scattering experiments, ARIE BODEK **109** (1973) 60

Mass resolution in fission-fragment double-kinetic-energy measurements, E. M. BOHN, R. A. LERCHE, A. B. LONG and B. W. WEHRING. **109** (1973) 60

Un nouveau mode de représentation des pics de détection d'un détecteur Ge(Li), J. LIBERT **109** (1973) 60

The application of a gas jet recoil transport system to the products of fast neutron reactions, W. J. WIESEHAHN, H. DAUTET, J. M. D'AURIA and B. C. PATE **109** (1973) 61

Humidity effects in the 138A ionization chamber, M. J. WOODS **109** (1973) 61

Improvements to a method of externally pulsing an accelerator, A. GIL RAMOS and P. N. COOPER **109** (1973) 61

Errata

Études des structures multipériodiques au moyen des circuits à éléments localisés, Nucl. Instr. and Meth. **98** (1972) 285–299, D. T. TRAN **102** (1972) 37

Correction for loss of charged sigma decays in bubble chambers, Nucl. Instr. and Meth. **101** (1972) 253–256, J. GRISELIN, P. GRANET and R. BARLOUTAUD **105** (1972) 39

Method for the analysis of pure quadrupole spectra in nuclear gamma-ray resonance, Nucl. Instr. and Meth. **71** (1969) 285–291, G. K. SHENOY and B. D. DUNLAP **107** (1973) 20

A Doppler-shift attenuation factor calculation by the Monte Carlo methods, Nucl. Instr. and Meth. **100** (1972) 205–209, W. G. HANSON and P. A. PUHACH **108** (1973) 41

A Monte Carlo solution of multiple scattering in cold neutron scattering experiments, Nucl. Instr. and Meth. **101** (1972) 263–266, H. KALLI **108** (1973) 41

A comparison of radiative capture with decay gamma-ray method in borehole logging for economic minerals, Nucl. Instr. and Meth. **104** (1972) 485–492, F. E. SENFTLE, R. M. MOXHAM and A. B. TANNER **109** (1973) 41

New method for measurement of γ-ray polarization by detection of angular correlation in pair production, Nucl. Instr. and Meth. **104** (1972) 101–107, M. KOBAYASHI and K. KONDO **109** (1973) 41

Book Reviews

Plasma Physics and Controlled Nuclear Fusion Research 1971, N. HÖRNQVIST **101** (1972) 40

Plasma Physics and Controlled Nuclear Fusion Research 1971, N. HÖRNQVIST **102** (1972) 37

Books have recently been published by the International Atomic Energy Agency in Vienna **102** (1972) 37

ınual Review of Nuclear Science, J. E. Thun . . . **103** (1972) 179
oceedings of the 8th International Conference on High-Energy Accelerators, J. Walker . . . **105** (1972) 171
e Electronic Structure of Point Defects, E. Karlsson . . . **105** (1972) 617
athematical Theory of Transport Processes in Gases, H. Wilhelmsson . . . **105** (1972) 617
ıtistical Methods in Experimental Physics, T. Groth . . . **106** (1973) 411
ectron Spectroscopy, C. Nordling . . . **106** (1973) 411
atistical and Computational Methods in Data Analysis, B. Olsen . . . **106** (1973) 617
e Practitioner's Shell Model, E. Karlsson . . . **106** (1973) 617
össbauer Spectoscopy and its Applications, E. Karlsson . . . **106** (1973) 617
easurement of Low-Level Radioactivity, A. Stenberg . . . **106** (1973) 618
oks recently published by the International Atomic Energy Agency in Vienna . . . **107** (1973) 617
inicomputers in Data Processing and Simulation, T. Bergmark . . . **109** (1973) 203
ompt Fission Neutron Spectra, T. Wiedling . . . **109** (1973) 203
ıeoretical Physics, H. Wilhelmsson . . . **109** (1973) 412

ews Items

rst International Summer School on Radionuclide Metrology . . . **101** (1972) 615
ıropean Conference on the Use of Low Energy Accelerators . . . **102** (1972) 371
72 Proton Linear Accelerator Conference . . . **103** (1972) 179
73 Particle Accelerator Conference . . . **105** (1972) 171
ealth Physics Society, 18th Annual Meeting . . . **105** (1972) 396
onference on Nuclear Structure and High Energy Physics . . . **106** (1973) 412
NISOR goes on-line, E. H. Spejewski and J. H. Hamilton . . . **107** (1973) 203
atement issued by the International Commission on Radiological Protection after its Meeting in November 1972 **107** (1973) 618
ıropean Conference on the Use of Low Energy Accelerators . . . **108** (1973) 412
ealth Physics Society, 18th Annual Meeting . . . **108** (1973) 412
ıe Denver Conference on Applications of X-rays Analysis . . . **108** (1973) 412

ymposium Report

ıropean Spiral Reader Symposium . . . **108** (1973) 409

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Index
101-11

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Quantum Mechanics

New Approaches to Selected Topics

by **HARRY J. LIPKIN,** The Weizmann Institute of Science, Rehovoth, Israel.

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Intended for a first year graduate course in quantum mechanics, this collection of topics can also be considered as a set of self-contained 'monographs for pedestrians' on the Mössbauer effect, many-body quantum mechanics, kaon physics, scattering theory, Feynman diagrams, symmetries and relativistic quantum mechanics. An unusual feature of the book is the introduction of many interesting physical problems and mathematical techniques at a much earlier level than in conventional texts. This approach enables the student to see the physical implications and useful applications of quantum theory before he has mastered the formalism in detail and it provides him with new mathematical tools at an earlier stage for use in subsequent problems. It also presents the active research physicist with a 'pedestrian' treatment of many topics without the necessity of learning the formalism.

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